

STIC-Biot ch/ChemLib

93410

From: Schultz, James  
Sent: Wednesday, May 07, 2003 9:22 AM  
To: STIC-Biotech/ChemLib  
Subject: Sequence search 10/057,550

RECEIVED

MAY -7 2003

TECH/CHEM. DIVISION  
(STIC)

Whoops, sorry, the corrected file name is now listed in the title above.

-----Original Message-----

From: STIC-Biotech/ChemLib  
Sent: Wednesday, May 07, 2003 9:06 AM  
To: Schultz, James  
Subject: RE: Sequence search pct/us02/04123

This Application Number does not have a valid CRF - please provide the necessary correction or another application number.

maude

-----Original Message-----

From: Schultz, James  
Sent: Wednesday, May 07, 2003 8:36 AM  
To: STIC-Biotech/ChemLib  
Subject: Sequence search pct/us02/04123

Hello,

I need a length limited nucleotide sequence search performed on SEQ ID NO: 64 in the above entitled application, where the maximum size of the returned hit is no more than 50 nucleotides long. Thanks,  
Doug Schultz

J. Douglas Schultz, Ph.D.  
AU 1635 (Biotechnology)  
Patent Examiner  
United States Patent and Trademark Office  
(703) 308-9355  
(703) 746-3973 (fax)  
Office: CM1 12E18  
Mail: CM1 11E12

Edward Hart  
Technical Info. Specialist  
STIC/Biotech  
CMI 6B02 Tel: 305-9203

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: 5/18/03  
Date Completed: 5/17/03  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:

NA Sequences: 1  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: ADH  
Sequence Sys.: 01  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_





# STIC SEARCH RESULTS

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact:*

Mary Hale, Information Branch Supervisor  
308-4258, CM1-1E01

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library CM1 – Circ. Desk







GenCore version 5.1.4-p5\_4578  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 16, 2003, 05:03:09 ; Search time 7722 Seconds  
(without alignments)  
11219.769 Million cell updates/sec

Title: US-10-057-550a-64

Perfect score: 2977

Sequence: 1 ccgaatgaccgcctcccg.....taataataaataattt 2977

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenBank:\*

1: gb\_ba:\*

2: gb\_htg:\*

3: gb\_in:\*

4: gb\_ov:\*

5: gb\_ov:\*

6: gb\_ov:\*

7: gb\_ov:\*

8: gb\_ov:\*

9: gb\_ov:\*

10: gb\_ov:\*

11: gb\_ov:\*

12: gb\_ov:\*

13: gb\_ov:\*

14: gb\_ov:\*

15: gb\_ov:\*

16: gb\_ov:\*

17: gb\_ov:\*

18: gb\_ov:\*

19: gb\_ov:\*

20: gb\_ov:\*

21: gb\_ov:\*

22: gb\_ov:\*

23: gb\_ov:\*

24: gb\_ov:\*

25: gb\_ov:\*

26: gb\_ov:\*

27: gb\_ov:\*

28: gb\_ov:\*

29: gb\_ov:\*

30: gb\_ov:\*

31: gb\_ov:\*

32: gb\_ov:\*

33: gb\_ov:\*

34: gb\_ov:\*

35: gb\_ov:\*

36: gb\_ov:\*

37: gb\_ov:\*

38: gb\_ov:\*

39: gb\_ov:\*

40: gb\_ov:\*

41: gb\_ov:\*

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	32.8	1.1	49	9	HUMRAF12	L00213 Human c-raf
2	30.6	1.0	31	6	AX248756	AX248756 Sequence
3	28	0.9	28	6	AR090859	AR090859 Sequence
4	28	0.9	28	6	AR197894	AR197894 Sequence
5	26	0.9	26	6	AR090860	AR090860 Sequence
6	26	0.9	26	6	AR197895	AR197895 Sequence
7	26	0.9	26	6	196168	196168 Sequence
8	26	0.9	26	6	196169	196169 Sequence
9	25	0.8	25	6	AR110776	AR110776 Sequence
10	22.2	0.7	22	6	AR157157	AR157157 Sequence
11	22	0.7	22	6	AR079693	AR079693 Sequence
12	22	0.7	22	6	AR081223	AR081223 Sequence
13	22	0.7	22	6	AR142002	AR142002 Sequence
14	22	0.7	22	6	AR170583	AR170583 Sequence
15	22	0.7	22	6	AR164948	AR164948 Sequence
16	21.6	0.7	21	6	AR159540	AR159540 Sequence
17	21.4	0.7	21	6	AR100922	AR100922 Sequence
18	21.4	0.7	21	6	AR100937	AR100937 Sequence
19	21.2	0.7	21	6	AR159574	AR159574 Sequence
20	21.2	0.7	21	6	HUMMACG	L37694 Homo sapien
21	21	0.7	21	6	AX119347	AX119347 Sequence
22	21	0.7	21	6	AR100923	AR100923 Sequence
23	21	0.7	21	6	AR100938	AR100938 Sequence
24	20.8	0.7	20	6	AR100938	AR100938 Sequence
25	20.6	0.7	20	6	AR100938	AR100938 Sequence
26	20.6	0.7	20	6	AX096685	AX096685 Sequence
27	20.6	0.7	20	6	AX119579	AX119579 Sequence
28	20.6	0.7	20	6	AX159538	AX159538 Sequence
29	20.4	0.7	20	6	AR159538	AR159538 Sequence
30	20.4	0.7	20	6	AR159538	AR159538 Sequence
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33	20.4	0.7	20	6	AR159538	AR159538 Sequence
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35	20.2	0.7	20	6	AR159538	AR159538 Sequence
36	20.2	0.7	20	6	AR159538	AR159538 Sequence
37	20.2	0.7	20	6	AR159538	AR159538 Sequence
38	20.2	0.7	20	6	AR159538	AR159538 Sequence
39	20.2	0.7	20	6	AR159538	AR159538 Sequence
40	20.2	0.7	20	6	AR159538	AR159538 Sequence
41	20.2	0.7	20	6	AR159538	AR159538 Sequence
42	20.2	0.7	20	6	AR159538	AR159538 Sequence
43	20.2	0.7	20	6	AR159538	AR159538 Sequence
44	20.2	0.7	20	6	AR159538	AR159538 Sequence
45	20.2	0.7	20	6	AR159538	AR159538 Sequence

# ALIGNMENTS

RESULT 1

LOCUS HUMRAF12 49 bp DNA linear PRI 08-JAN-1995

DEFINITION Human c-raf-1 proto-oncogene, exon 2, clones lambda-(2.13).

ACCESSION L00213

VERSION L00213.1 GI:190830

KEYWORDS c-myc proto-oncogene; raf protein; raf proto-oncogene.

SEGMENT 2 of 9

SOURCE Homo sapiens (tissue library: of Lawn et al.) DNA.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 49)

Bonner,T.I., Kerby,S.B., Sutcliffe,P., Gunnell,M.A., Mark,G. and Rapp,U.R.

```

ACCESSION      AR090859
VERSION        AR090859.1   GI:10017614
KEYWORDS
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 28)
AUTHORS        Chenchik,A., Jakhadze,G. and Bibilashvili,I.R.
TITLE          Methods of assaying differential expression
JOURNAL        Patent: US 5994076-A 979 30-NOV-1999;
FEATURES       Location/Qualifiers
               source
               1..28
               /organism="unknown"
BASE COUNT    5 a           8 c           5 g           10 t
ORIGIN
Query Match   0.9%; Score 28; DB 6; Length 28;
Best Local Similarity 100.0%; Pred.No. 2,7e+04;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY            1704 CAGTTCCAGTCGATGTCTACTCCTAT 1731
Db             1 CAGTTCCAGTCGATGTCTACTCCTAT 28

RESULT 4
LOCUS         AR197894                      28 bp     DNA           linear    PAT 20-APR-2002
DEFINITION    Sequence 979 from patent US 6352829.
ACCESSION     AR197894
VERSION       AR197894.1   GI:20247743
KEYWORDS
SOURCE         Unknown.
ORGANISM       Unknown.
REFERENCE      Unclassified.
AUTHORS        1 (bases 1 to 28)
TITLE          Chenchik,A., Jakhadze,G. and Bibilashvili,I.R.
JOURNAL        Methods of assaying differential expression
FEATURES       Patent: US 6352829-A 979 05-MAR-2002;
               Location/Qualifiers
               1..28
               /organism="unknown"
BASE COUNT    5 a           8 c           5 g           10 t
ORIGIN
Query Match   0.9%; Score 28; DB 6; Length 28;
Best Local Similarity 100.0%; Pred.No. 2,7e+04;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY            1704 CAGTTCCAGTCGATGTCTACTCCTAT 1731
Db             1 CAGTTCCAGTCGATGTCTACTCCTAT 28

RESULT 5
LOCUS         AR090860/c                    26 bp     DNA           linear    PAT 07-SEP-2000
DEFINITION    Sequence 980 from patent US 5994076.
ACCESSION     AR090860
VERSION       AR090860.1   GI:10017615
KEYWORDS
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 26)
AUTHORS        Chenchik,A., Jakhadze,G. and Bibilashvili,I.R.
TITLE          Methods of assaying differential expression
JOURNAL        Patent: US 5994076-A 980 30-NOV-1999;
FEATURES       Location/Qualifiers
               1..26
               /organism="unknown"
BASE COUNT    4 a           6 c           9 g           7 t
ORIGIN

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Query Match 0.9%; Score 26; DB 6; Length 26;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1963 TCTCTACCGAAGATCAACCGGACCGC 1988  
DB 26 TCTCTACCGAAGATCAACCGGACCGC 1

RESULT 6  
LOCUS ARI97895/c 26 bp DNA linear PAT 20-APR-2002  
DEFINITION Sequence 980 from patent US 6352829.  
ACCESSION ARI97895  
VERSION ARI97895.1 GI:20247744  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 26)  
AUTHORS Chenchik, A., Johhadze, G. and Bibilashvili, R.  
TITLE Methods of assaying differential expression  
JOURNAL Patent: US 6352829-A 980 05-MAR-2002;  
FEATURES Location/Qualifiers  
source 1..26  
BASE COUNT 4 a 6 c 9 g 7 t

Query Match 0.9%; Score 26; DB 6; Length 26;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1963 TCTCTACCGAAGATCAACCGGACCGC 1988  
DB 26 TCTCTACCGAAGATCAACCGGACCGC 1

RESULT 7  
LOCUS 196168/c 26 bp DNA linear PAT 01-DEC-1998  
DEFINITION Sequence 5 from patent US 5734039.  
ACCESSION 196168  
VERSION 196168.1 GI:3940638  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 26)  
AUTHORS Calabretta, B. and Skorski, T.  
TITLE Antisense oligonucleotides targeting cooperating oncogenes  
JOURNAL Patent: US 5734039-A 5 31-MAR-1998;  
FEATURES Location/Qualifiers  
source 1..26  
BASE COUNT 5 a 4 c 14 g 3 t

Query Match 0.9%; Score 26; DB 6; Length 26;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ATGTGACCGCTCCGCTCCCTCACC 30  
DB 26 ATGTGACCGCTCCGCTCCCTCACC 1

RESULT 8  
LOCUS 196169 26 bp DNA linear PAT 01-DEC-1998  
DEFINITION Sequence 6 from patent US 5734039.  
ACCESSION 196169

VERSION 196169.1 GI:3940639  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 26)  
AUTHORS Calabretta, B. and Skorski, T.  
TITLE Antisense oligonucleotides targeting cooperating oncogenes  
JOURNAL Patent: US 5734039-A 6 31-MAR-1998;  
FEATURES Location/Qualifiers  
source 1..26  
BASE COUNT 3 a 14 c 4 g 5 t

Query Match 0.9%; Score 26; DB 6; Length 26;  
Best Local Similarity 100.0%; Pred. No. 1e+05;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ATGTGACCGCTCCGCTCCCTCACC 30  
DB 1 ATGTGACCGCTCCGCTCCCTCACC 26

RESULT 9  
LOCUS ARI10776/c 25 bp DNA linear PAT 14-FEB-2001  
DEFINITION Sequence 2 from patent US 6126965.  
ACCESSION ARI10776  
VERSION ARI10776.1 GI:12827624  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Kasid, U., Gokhale, P., Ditschilo, A. and Rahman, A.  
TITLE Liposomes containing oligonucleotides  
JOURNAL Patent: US 6126965-A 2 03-OCT-2000;  
FEATURES Location/Qualifiers  
source 1..25  
BASE COUNT 4 a 7 c 6 g 8 t

Query Match 0.8%; Score 25; DB 6; Length 25;  
Best Local Similarity 100.0%; Pred. No. 2e+05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 GCTGCATCATGAGCAGCATACAG 145  
DB 25 GCTGCATCATGAGCAGCATACAG 1

RESULT 10  
LOCUS AX157157/c 50 bp DNA linear PAT 22-JUN-2001  
DEFINITION Sequence 485 from Patent WO0140521.  
ACCESSION AX157157  
VERSION AX157157.1 GI:14538488  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
REFERENCE 1 (bases 1 to 50)  
AUTHORS Shimkets, R.A. and Leach, M.  
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof  
JOURNAL Patent: WO 0140521-A 485 07-JUN-2001;  
FEATURES Location/Qualifiers  
source 1..50  
/organism="Homo sapiens"

misc-feature /db\_xref="taxon:9606"  
25..26  
/note="Nucleotide deleted between bases 25 and 26  
Accession number cg44928329"  
misc-feature 26  
/note="1 of 2 allelic variants (486 is other entry)"  
BASE COUNT 29 a 8 c 7 g 6 t  
ORIGIN

Query Match 0.7%; Score 22.2; DB 6; Length 50;  
Best Local Similarity 77.1%; Pred. No. 1.3e+06;  
Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 2875 TTCTTGATGATTTGGGTTTATTTGTTTATT 2909  
DB 50 TTCTTGATGATTTGGGTTTATTTGTTTATT 16

RESULT 11  
LOCUS AR079693 43 bp DNA  
DEFINITION Sequence 17 from patent US 5965726.  
ACCESSION AR079693  
VERSION AR079693.1 GI:10006434  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 43)  
AUTHORS Pavlakis,G.N. and Felber,B.K.  
TITLE Method of eliminating inhibitory/instability regions of mRNA  
JOURNAL Patent: US 5965726-A 17 12-OCT-1999;  
FEATURES  
LOCATION/Qualifiers  
1..43  
/organism="unknown"

BASE COUNT 9 a 11 c 5 g 18 t  
ORIGIN

Query Match 0.7%; Score 22; DB 6; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.5e+06;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 2207 TCACAGGCGCTTAACCTGATGCTTCCTTTCTATC 2244  
DB 2 TCACAGATACCTAGCTTCATATGCTTATGCTTAC 39

RESULT 12  
LOCUS AR081223 43 bp DNA  
DEFINITION Sequence 17 from patent US 5972596.  
ACCESSION AR081223  
VERSION AR081223.1 GI:10007949  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 43)  
AUTHORS Pavlakis,G.N. and Felber,B.K.  
TITLE Nucleic acid constructs containing HIV genes with mutated inhibitory/instability regions and methods of using same  
JOURNAL Patent: US 5972596-A 17 26-OCT-1999;  
FEATURES  
LOCATION/Qualifiers  
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BASE COUNT 9 a 11 c 5 g 18 t  
ORIGIN

Query Match 0.7%; Score 22; DB 6; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.5e+06;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 2207 TCACAGGCGCTTAACCTGATGCTTCCTTTCTATC 2244

DB 2 TCACAGATACCTAGCTTCATATGCTTATGCTTACC 39

RESULT 13  
LOCUS AR142002 43 bp DNA  
DEFINITION Sequence 17 from patent US 6174666.  
ACCESSION AR142002  
VERSION AR142002.1 GI:15102302  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 43)  
AUTHORS Pavlakis,G.N. and Felber,B.K.  
TITLE Method of eliminating inhibitory/instability regions from mRNA  
JOURNAL Patent: US 6174666-A 17 16-JAN-2001;  
FEATURES  
LOCATION/Qualifiers  
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/organism="unknown"

BASE COUNT 9 a 11 c 5 g 18 t  
ORIGIN

Query Match 0.7%; Score 22; DB 6; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.5e+06;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 2207 TCACAGGCGCTTAACCTGATGCTTCCTTTCTATC 2244  
DB 2 TCACAGATACCTAGCTTCATATGCTTATGCTTACC 39

RESULT 14  
LOCUS AR170583 43 bp DNA  
DEFINITION Sequence 17 from patent US 6291664.  
ACCESSION AR170583  
VERSION AR170583.1 GI:17908542  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 43)  
AUTHORS Pavlakis,G.N. and Felber,B.K.  
TITLE Method of eliminating inhibitory/instability regions of mRNA  
JOURNAL Patent: US 6291664-A 17 18-SEP-2001;  
FEATURES  
LOCATION/Qualifiers  
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/organism="unknown"

BASE COUNT 9 a 11 c 5 g 18 t  
ORIGIN

Query Match 0.7%; Score 22; DB 6; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.5e+06;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 2207 TCACAGGCGCTTAACCTGATGCTTCCTTTCTATC 2244  
DB 2 TCACAGATACCTAGCTTCATATGCTTATGCTTACC 39

RESULT 15  
LOCUS AX164948 50 bp DNA  
DEFINITION Sequence 143 from Patent W00138586.  
ACCESSION AX164948  
VERSION AX164948.1 GI:14545777  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 50)  
AUTHORS Shinkets, R.A. and Leach, M.  
TITLE Nucleic acids containing single nucleotide polymorphisms and  
methods of use thereof  
JOURNAL Patent: WO 0138586-A 143 31-MAY-2001;  
Curegen Corporation (US)  
FEATURES  
source 1. .50  
location/Qualifiers  
misc\_feature /organism="Homo sapiens".  
25..26 /db\_xref="taxon:9606"  
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Accession number c943945210"  
variation 26  
/note="single nucleotide polymorphism"  
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ORIGIN  
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Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 2804 AAACAACAACAACAGCCTTCTCTCT 2833  
DB 33 AAACAACAACAACAAGACCTTCTCTCT 4

Search completed: May 16, 2003, 09:18:22  
Job time : 7741 secs



XX	RESULT 1
ID	AAA07016
DT	AAA07016 standard; DNA; 42 BP.
AC	AAA07016;
DT	03-JUL-2000 (first entry)
XX	Raf-1 mutagenic PCR primer, SEQ ID NO:13.
XX	Raf-1; CAP kinase; phosphorylation; ceramide-activated protein kinase
KW	mutagensis; lipopolysaccharide; LPS; endotoxin;
XX	sphingomyelin signal transduction pathway; PCR primer; ss.
OS	Mammalia.
OS	Synthetic.
XX	US6040149-A.
PN	21-MAR-2000.
PD	10-JAN-1997; 97US-0785247.
PF	11-JAN-1996; 96US-0009900.
PR	(SLOK ) SLOAN KETTERING INST CANCER RES.
PA	Zhang Y, Liu J, Kolesnick RN;
PI	WPI; 2000-270133/23.
DR	Novel method of identifying agents capable of inhibiting
XX	
XT	

```
PT 1lipopolysaccharide induced threonine phosphorylation by a
PT ceramide-activated protein kinase
XX
XX
PS Example VI; Column 56; 84pp; English.
XX
XX The invention relates to a novel method of determining whether an agent
CC is capable of specifically inhibiting the ability of a
CC ceramide-activated protein (CAP) kinase to phosphorylate the threonine
CC residue in a polypeptide containing a Thr-Pro- or Thr-Leu-Pro motif. In
CC particular, the peptide substrate that is specifically phosphorylated is
CC Raft-1, epidermal growth factor receptor (EGFR), or suitable fragments
CC thereof. The CAP kinase is membrane bound and has an apparent molecular
CC weight of 100-110 kD. It is an upstream participant in a sphingomyelin
CC signal transduction pathway which uses ceramide as a second messenger.
CC This pathway is initiated by tumour necrosis factor- $\alpha$  (TNF- $\alpha$ )
CC and interleukin-beta (IL-beta), causing the hydrolysis of sphingomyelin
CC to ceramide. The ceramide in turn stimulates the kinase to
CC phosphorylate protein substrates which can then mediate signal
CC transduction. The CAP kinase is also stimulated by the bacterial
CC endotoxin lipopolysaccharide (LPS), which is thought to mimic the second
CC messenger function of ceramide. The methods are useful for identifying
CC agents that inhibit lipopolysaccharide-induced Thr phosphorylation by
CC CAP kinase. The agents identified using the method are useful for
CC treating disorders associated with aberrant phosphorylation of target
CC molecules by CAP kinase, e.g., inflammatory disorders (such as rheumatoid
CC arthritis), ulcerative colitis, graft versus host disease, lupus
CC erythematosus, HIV, infection, disorders associated with poor stem cell
CC growth, and septic shock. Sequences AAA07016-A07019 and AAA07027
CC represent PCR primers used in an exemplification of the present invention
CC to generate mutant flag peptide/Raft-1 sequences via overlap extension
CC PCR.
XX
XX Sequence 42 BP; 9 A; 12 C; 14 G; 7 T; 0 other;
SQ
Query Match 1.2%; Score 35.6; DB 21; Length 42;
Best Local Similarity 90.5%; Pred. No. 1.4;
Matches 38; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY 916 GTCCACATGTCACGACGCGTCCCTGTGACACGACGATG 957
Db 1 GTCCACATGTCACGCGTACCGGTGACACGACGATG 42
RESULT 2
AAA07027 standard; DNA: 39 BP.
ID AAA07027
AC AAA07027;
XX
XX 03-JUL-2000 (first entry)
XX
XX Raf-1 mutagenic PCR primer, SEQ ID NO:27;
XX
XX Raf-1; CAP kinase; phosphorylation; ceramide-activated protein kinase;
XX mutagenesis; lipopolysaccharide; LPS; endotoxin;
XX sphingomyelin signal transduction pathway; PCR primer; ss.
XX
XX Mammalia.
XX OS Synthetic.
XX
XX US6040149-A.
XX
XX 21-MAR-2000.
XX
XX 10-JAN-1997; 97US-0785247.
XX
XX 11-JAN-1996; 96US-0009900.
XX
XX (SLOK ) SLOAN KETTERING INST CANCER RES.
XX Zhang Y, Liu J, Kolesnick RN;
XX
XX WPI; 2000-270133/23.
DR
```

```
XX
XX Novel method of identifying agents capable of inhibiting
PT 1lipopolysaccharide induced threonine phosphorylation by a
PT ceramide-activated protein kinase
XX
XX
PS Example VI; Column 56; 84pp; English.
XX
XX The invention relates to a novel method of determining whether an agent
CC is capable of specifically inhibiting the ability of a
CC ceramide-activated protein (CAP) kinase to phosphorylate the threonine
CC residue in a polypeptide containing a Thr-Pro- or Thr-Leu-Pro motif. In
CC particular, the peptide substrate that is specifically phosphorylated is
CC Raft-1, epidermal growth factor receptor (EGFR), or suitable fragments
CC thereof. The CAP kinase is membrane bound and has an apparent molecular
CC weight of 100-110 kD. It is an upstream participant in a sphingomyelin
CC signal transduction pathway which uses ceramide as a second messenger.
CC This pathway is initiated by tumour necrosis factor- $\alpha$  (TNF- $\alpha$ )
CC and interleukin-beta (IL-beta), causing the hydrolysis of sphingomyelin
CC to ceramide. The ceramide in turn stimulates the kinase to
CC phosphorylate protein substrates which can then mediate signal
CC transduction. The CAP kinase is also stimulated by the bacterial
CC endotoxin lipopolysaccharide (LPS), which is thought to mimic the second
CC messenger function of ceramide. The methods are useful for identifying
CC agents that inhibit lipopolysaccharide-induced Thr phosphorylation by
CC CAP kinase. The agents identified using the method are useful for
CC treating disorders associated with aberrant phosphorylation of target
CC molecules by CAP kinase, e.g., inflammatory disorders (such as rheumatoid
CC arthritis), ulcerative colitis, graft versus host disease, lupus
CC erythematosus, HIV, infection, disorders associated with poor stem cell
CC growth, and septic shock. Sequences AAA07016-A07019 and AAA07027
CC represent PCR primers used in an exemplification of the present invention
CC to generate mutant flag peptide/Raft-1 sequences via overlap extension
CC PCR.
XX
XX Sequence 39 BP; 9 A; 11 C; 13 G; 6 T; 0 other;
SQ
Query Match 1.3%; Score 32.6; DB 21; Length 39;
Best Local Similarity 89.7%; Pred. No. 1.1;
Matches 35; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY 919 CACATGTCACGACGCGTCCCTGTGACACGACGATG 957
Db 1 CACATGTCACGACGCGTACCGGTGACACGACGATG 39
RESULT 3
AAA07017 standard; DNA: 42 BP.
ID AAA07017
AC AAA07017;
XX
XX 03-JUL-2000 (first entry)
XX
XX Raf-1 mutagenic PCR primer, SEQ ID NO:14.
XX
XX Raf-1; CAP kinase; phosphorylation; ceramide-activated protein kinase;
XX mutagenesis; lipopolysaccharide; LPS; endotoxin;
XX sphingomyelin signal transduction pathway; PCR primer; ss.
XX
XX Mammalia.
XX OS Synthetic.
XX
XX US6040149-A.
XX
XX 21-MAR-2000.
XX
XX 10-JAN-1997; 97US-0785247.
XX
XX 11-JAN-1996; 96US-0009900.
XX
XX (SLOK ) SLOAN KETTERING INST CANCER RES.
XX Zhang Y, Liu J, Kolesnick RN;
XX
XX
```



XX  
DR WPI; 2000-270133/23.  
XX  
PT Novel method of identifying agents capable of inhibiting  
PT lipopolysaccharide induced threonine phosphorylation by a  
PT ceramide-activated protein kinase  
XX  
PS Example VI; Column 56; 84pp; English.  
XX  
CC The invention relates to a novel method of determining whether an agent  
CC is capable of specifically inhibiting the ability of a  
CC ceramide-activated protein (CAP) kinase to phosphorylate the threonine  
CC residue in a polypeptide containing a Thr-Pro or Thr-Leu-Pro motif. In  
CC particular, the peptide substrate that is specifically phosphorylated is  
CC Raf-1, epidermal growth factor receptor (EGFR), or suitable fragments  
CC thereof. The CAP kinase is membrane bound and has an apparent molecular  
CC weight of 100-110 kD. It is an upstream participant in a sphingomyelin  
CC signal transduction pathway which uses ceramide as a second messenger.  
CC This pathway is initiated by tumour necrosis factor-alpha (TNF-alpha)  
CC and interleukin-beta (IL-beta), causing the hydrolysis of sphingomyelin  
CC to ceramide. The ceramide in turn stimulates the kinase to  
CC phosphorylate protein substrates which can then mediate signal  
CC transduction. The CAP kinase is also stimulated by the bacterial  
CC endotoxin lipopolysaccharide (LPS), which is thought to mimic the second  
CC messenger function of ceramide. The methods are useful for identifying  
CC agents that inhibit lipopolysaccharide-induced Thr phosphorylation by  
CC CAP kinase. The agents identified using the method are useful for  
CC treating disorders associated with aberrant phosphorylation of target  
CC molecules by CAP kinase, e.g., inflammatory disorders (such as rheumatoid  
CC arthritis), ulcerative colitis, graft versus host disease, lupus  
CC erythematosus, HIV, infection, disorders associated with poor stem cell  
CC growth, and septic shock. Sequences AAA07016-A07019 and AAA07027  
CC represent PCR primers used in an exemplification of the present invention  
CC to generate mutant flag peptide/Raf-1 sequences via overlap extension  
CC PCR.  
XX  
SQ Sequence 42 BP; 8 A; 11 C; 15 G; 8 T; 0 other;  
XX  
Query Match 1.1%; Score 32.4; DB 21; Length 42;  
Best Local Similarity 85.7%; Pred. No. 13;  
Matches 36; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
OY 916 GTCCACATGCTGACACACGCTGCTGTGACAGACAGATG 957  
DB 1 GTCCACATGCTGACACGCTGCTGTGACAGACAGATG 42  
RESULT 4  
AAI30347  
ID AAI30347 standard; DNA; 31 BP.  
XX  
AC AAI30347;  
XX  
DT 18-OCT-2001 (first entry)  
XX  
DE Human single nucleotide polymorphism (SNP) RAF1.  
XX  
KM Human; resequence; genotype; disease; forensic; paternity testing;  
KM single nucleotide polymorphism; SNP; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT Variation replace(16,T)  
FT /tag= a  
FT /standard\_name= "single nucleotide polymorphism"  
XX  
PN WO200166800-A2.  
XX  
PD 13-SEP-2001.  
XX  
PF 07-MAR-2001; 2001WO-US07268.  
XX

PR 07-MAR-2000; 2000US-0187510.  
PR 22-MAY-2000; 2000US-0206129.  
XX  
PA (WHEED) WHITEHEAD INST BIOMEDICAL RES.  
XX  
PI Cargill M, Ireland JS, Lander ES;  
XX  
DR WPI; 2001-522952/57.  
XX  
PT Nucleic acid molecules from the human genome which include polymorphic  
PT sites, useful in methods for predicting the presence, absence or  
PT severity of a particular phenotype or disorder (e.g. diabetes)  
XX  
PS associated with a particular genotype  
XX  
PS Claim 1; Page 80; 145pp; English.  
XX  
XX The invention relates to the identification of nucleic acid molecules  
CC (AAI29513-AAI31314) from the human genome which include polymorphic sites  
CC which can predispose individuals to disease. Various genes from a number  
CC of individuals were resequenced and single nucleotide polymorphisms  
CC (SNPs) in these genes discovered. The method is useful for predicting the  
CC presence, absence or severity of a particular phenotype or disorder (e.g.  
CC diabetes) associated with a particular genotype. The nucleic acids  
CC containing the polymorphic sites may be useful in forensics and paternity  
CC testing.  
XX  
SQ Sequence 31 BP; 7 A; 10 C; 5 G; 9 T; 0 other;  
XX  
Query Match 1.0%; Score 31; DB 22; Length 31;  
Best Local Similarity 100.0%; Pred. No. 29;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 2144 CCTTCTCCAGAGCAGACACATGTTTC 2174  
DB 1 CCTTCTCCAGAGCAGACACATGTTTC 31  
RESULT 5  
ABK66891  
ID ABK66891 standard; DNA; 28 BP.  
XX  
AC ABK66891;  
XX  
DT 02-JUL-2002 (first entry)  
XX  
DE Human gene specific PCR primer #979.  
XX  
KM Human; resequence; genotype; disease; forensic; paternity testing;  
KM primer; ss; DNA microarray; differential expression analysis; human.  
XX  
OS Homo sapiens.  
XX  
PN US6352829-B1.  
XX  
PD 05-MAR-2002.  
XX  
PF 05-JAN-1999; 99US-0225928.  
XX  
PR 21-MAY-1997; 97US-0859998.  
XX  
PA (CLON-) CLONTECH LAB INC.  
XX  
PI Chenchik A, Johhadze G, Bldilashvili R;  
XX  
DR WPI; 2002-314699/35.  
XX  
PT Producing sub-population of labeled nucleic acids, useful for analysing  
PT differences in RNA profiles between several different physiological  
PT sources, using set of distinct gene specific primers  
XX  
PS Example 3; SEQ ID No 979; 11pp; English.  
XX  
XX The invention relates to producing a sub-population of labeled nucleic  
CC acids (NAs) comprising contacting a NA sample from a physiological

CC source, with a pool of 50 distinct gene specific primers under suitable  
 CC conditions to enzymatically generate sub-population of NAs, where  
 CC each gene specific primer has a sequence complementary to a distinct  
 CC mRNA, and each labeled NA is generated using a single gene specific  
 CC primer. The method is useful for producing a sub-population of labeled  
 CC NAs which is useful for analysing the differences in the RNA profiles  
 CC between several different physiological sources, where the method  
 CC comprises producing subpopulation of labeled NAs for the different  
 CC physiological sources, comprising the populations for each physiological  
 CC source to identify differences in the populations, where the comparison  
 CC is preferably performed by hybridising the labeled NAs for each of the  
 CC distinct physiological sources to an array of probe NAs stably  
 CC associated with the surface of a substrate to produce a hybridisation  
 CC pattern for each of the sources, and comparing the patterns for each of  
 CC the sources, where differential gene expression assays are  
 CC utilised in differential expression analysis of diseased a normal  
 CC tissue e.g. neoplastic a normal tissue, or different tissue or  
 CC subissue types. The present sequence is a human gene specific PCR  
 CC primer used in the method of the invention.  
 CC Note: The sequence data for this patent did not form part  
 CC of the printed specification, but was obtained in electronic  
 CC format directly from USPTO at  
 CC http.wipo.segdata.uspto.gov/sequence.html?DocID=6352829B1.  
 SQ Sequence 28 BP; 5 A; 8 C; 5 G; 10 T; 0 other;

Query Match 0.9%; Score 28; DB 24; Length 28;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1704.CAGTTTCAGTCGATGCTACTCTAT 1731  
 |||||  
 DB 1 CAGTTTCAGTCGATGCTACTCTAT 28

RESULT 6  
 AAV20480/c  
 ID AAV20480 standard; DNA; 26 BP.

AAV20480;

17-JUN-1998 (first entry)

Human c-raf antisense oligonucleotide.

Human; oncogene; proto-oncogene; neoplastic disease; anticancer;  
 cancer; antisense oligonucleotide; phosphorothioate; ss.

Synthetic.

Homo sapiens.

Key Location/Qualifiers  
 allele 1..26  
 /tag- a  
 /note- "phosphorothioate linkages"

US5734039-A.

31-MAR-1998.

15-SEP-1994; 94US-0306691.

15-SEP-1994; 94US-0306691.

(UYJE-) UNIV JEFFERSON THOMAS.

Calabretta B, Skorski T;

WPI; 1998-229882/20.

Anticancer composition comprising two anti-sense oligo:nucleotide(s)  
 targeting cytoplasmic and nuclear oncogene(s)

PS Example 4; Column 33; 92pp; English.

XX The present sequence represents an antisense oligonucleotide from the  
 CC present invention. The present invention describes a composition which  
 CC comprises two antisense oligonucleotides. The first oligonucleotide is  
 CC specific for a cytoplasmic oncogene or proto-oncogene selected from  
 CC ras, raf, EGF-1, c-fms, c-kit, c-met, c-trl, c-src, c-abl,  
 CC bcr-abl, c-fgr and c-yes. The second oligonucleotide is specific for a  
 CC nuclear oncogene or proto-oncogene selected from myc, jun, c-eis,  
 CC c-fos, c-myc, B-myb, c-rel, c-vav, c-ski, cyclin D1, PM/RAR  
 CC alpha, MML1/MT68, E2A/P1 and ALU-1/AF-4. The composition is used for  
 CC treating cancer. The combination of antisense oligonucleotides has  
 CC synergistically enhanced ability to inhibit growth of cancer cells.

SQ Sequence 26 BP; 5 A; 4 C; 14 G; 3 T; 0 other;

Query Match 0.9%; Score 26; DB 19; Length 26;  
 Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 5 ATGTACCGCGCTCCGCTCCCTACCC 30  
 |||||  
 DB 26 ATGTACCGCGCTCCGCTCCCTACCC 1

RESULT 7  
 ABR66892/c  
 ID ABR66892 standard; DNA; 26 BP.

ABR66892;

02-JUL-2002 (first entry)

Human gene specific PCR primer #980.

Primer; ss; DNA microarray; differential expression analysis; human.

Homo sapiens.

US6352829-B1.

05-MAR-2002.

05-JAN-1999; 99US-0225928.

21-MAY-1997; 97US-0859998.

(CLON-) CLONTECH LAB INC.

Chenchenk A, Jakhadze G, Biblshavlili R;

WPI; 2002-314699/35.

Producing sub-population of labeled nucleic acids, useful for analysing  
 differences in RNA profiles between several different physiological  
 sources, using set of distinct gene specific primers

Example 3; SEQ ID No 980; 11pp; English.

The invention relates to producing a sub-population of labeled nucleic  
 acids (NAs) comprising contacting a NA sample from a physiological  
 source, with a pool of 50 distinct gene specific primers under suitable  
 conditions to enzymatically generate sub-population of NAs, where  
 each gene specific primer has a sequence complementary to a distinct  
 mRNA, and each labeled NA is generated using a single gene specific  
 primer. The method is useful for producing a sub-population of labeled  
 NAs which is useful for analysing the differences in the RNA profiles  
 between several different physiological sources, where the method  
 comprises producing subpopulation of labeled NAs for the different  
 physiological sources, comprising the populations for each physiological  
 source to identify differences in the populations, where the comparison  
 is preferably performed by hybridising the labeled NAs for each of the  
 distinct physiological sources to an array of probe NAs stably

CC The present invention relates to oligonucleotides encoding polymorphic  
CC variants of proteins related to amyases, amylod proteins, angiotensin  
CC angiotensin related proteins, cadherin, cyclin, polymerase, oncogenes,  
CC histones, kinases, colony stimulating factors, complement related  
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,  
CC G-protein coupled receptors and thioesterases. The present sequence is  
CC one such oligonucleotide. The oligonucleotides and the peptides encoded  
CC by them may be used in the prevention, diagnosis and treatment of

QY 2882 TGATTTGGGTTTAAATTTTGT TTTT 2906



CC the amplified product. The MC-PCR reaction can amplify one or more  
CC target mRNAs in a sample using the primer set #1-#5 for each target  
CC mRNA. In the example given, primers #1, #2, #3, #4 and probe #5  
CC are the C-raf primers 1 (AAV33092), 2 (AAV33093), 3 (AAV33094), 4  
CC (AAV33095) and probe 5 respectively. These primers/probes were used to  
CC illustrate the method of the invention. The method claims to allow  
CC detection of low-abundance mRNA in small samples (e.g. 10 ng is  
CC sufficient) with high precision, and uses housekeeping genes as controls  
CC for RNA input and integrity. Also, a large number of samples may be  
CC processed simultaneously, making the process suitable for high  
CC throughput screening, and does not require continuous monitoring.  
XX  
SQ Sequence 24 BP; 7 A; 9 C; 3 G; 5 T; 0 other;  
Query Match. 0.8%; Score 24; DB 19; Length 24;  
Best Local Similarity 100.0%; Pred. No. 3.3e+03;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 816 GCACAGATATCTACACCTCAGC 839  
DB 1 GCACAGATATCTACACCTCAGC 24  
RESULT 12  
AAA3000/c  
ID AAA3000 standard; DNA; 31 BP.  
XX  
AC AAA3000;  
XX  
DT 09-AUG-2000 (first entry)  
XX  
DE Hairpin hybridizer molecule #5 targeting c-raf RNA.  
XX  
KW DNA-RNA hybrid; phosphorothioate; hairpin hybridizer molecule; HPH;  
KW c-raf; inhibitor; detect; nuclease resistance; gene function;  
XX gene expression modulator; ss.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT stem\_loop 1..31  
FT /\*tag- a  
FT misc\_RNA 1..11  
FT /\*tag- b  
FT /\*note- "2'-O-methyl-ribonucleotides"  
FT 1..4  
FT /\*tag- c  
FT /\*note- "Phosphorothioate internucleotide linkage"  
FT 12..20  
FT /\*tag- d  
FT /\*note- "Phosphorothioate internucleotide linkage"  
FT 21..31  
FT /\*tag- e  
FT /\*note- "2'-O-methyl-ribonucleotides"  
FT 28..31  
FT /\*tag- f  
FT /\*note- "Phosphorothioate internucleotide linkage"  
XX  
PN WO200017346-A2.  
XX  
PD 30-MAR-2000.  
XX  
PF 20-SEP-1999; 99WO-US21865.  
XX  
PR 21-SEP-1998; 98US-0101174.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX PA  
XX PI Hartmann T, Zwick M, Thompson J, Jarvis T;  
XX DR WPI; 2000-292841/25.  
XX  
PT Modulating target sequence in a cell, useful e.g. therapeutically or

PT for identifying gene function, by treatment with novel hairpin  
PT hybridizer nucleic acid molecules  
XX  
PS Claim 3; Page 76; 128pp; English.  
XX  
CC A method for modulating the function of a target sequence in a cell  
CC comprises treatment with a hairpin hybridizer (HPH) nucleic acid molecule  
CC such as that represented by the present sequence. The present HPH  
CC molecule is used in an example of the invention and targets the human  
CC c-raf gene. The HPH molecules function through RNA/DNA inhibition. The  
CC HPH molecule binds to and blocks the function of a target nucleic acid,  
CC and modulated cellular and viral processes such as splicing, editing, and  
CC translation. The HPH molecule can be used therapeutically, in target  
CC validation, to identify gene function and/or therapeutic targets, for  
CC analysis of mutations in diseased cell and to detect specific RNA. The  
CC hairpin structure improves resistance to nuclease degradation,  
CC localization within the cell, and uptake by cells. The HPH may include a  
CC sequence that activates RNase H (for cleaving RNA) and its specificity is  
CC greater than for linear antisense sequences.  
XX  
SQ Sequence 31 BP; 6 A; 7 C; 11 G; 1 T; 6 U; 0 other;  
Query Match. 0.8%; Score 24; DB 21; Length 31;  
Best Local Similarity 100.0%; Pred. No. 3.9e+03;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 2029 ATCAATGCTTGACGCGTACCAGC 2052  
DB 27 ATCAATGCTTGACGCGTACCAGC 4  
RESULT 13  
AAA29998/c  
ID AAA29998 standard; DNA; 33 BP.  
XX  
AC AAA29998;  
XX  
DT 09-AUG-2000 (first entry)  
XX  
DE Hairpin hybridizer molecule #3 targeting c-raf RNA.  
XX  
KW DNA-RNA hybrid; phosphorothioate; hairpin hybridizer molecule; HPH;  
KW c-raf; inhibitor; detect; nuclease resistance; gene function;  
XX gene expression modulator; ss.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT stem\_loop 1..33  
FT /\*tag- a  
FT misc\_RNA 1..12  
FT /\*tag- b  
FT /\*note- "2'-O-methyl-ribonucleotides"  
FT 1..4  
FT /\*tag- c  
FT /\*note- "Phosphorothioate internucleotide linkage"  
FT 13..21  
FT /\*tag- d  
FT /\*note- "Phosphorothioate internucleotide linkage"  
FT 22..33  
FT /\*tag- e  
FT /\*note- "2'-O-methyl-ribonucleotides"  
FT 30..33  
FT /\*tag- f  
FT /\*note- "Phosphorothioate internucleotide linkage"  
XX  
PN WO200017346-A2.  
XX  
PD 30-MAR-2000.  
XX  
PF 20-SEP-1999; 99WO-US21865.  
XX  
PR 21-SEP-1998; 98US-0101174.  
XX

XX (RIBO-) RIBOZYME PHARM INC.  
PA Hartmann T, Zwick M, Thompson J, Jarvis T;  
PI WPI: 2000-292841/25.  
XX  
XX Modulating target sequence in a cell, useful e.g. therapeutically or  
PT for identifying gene function, by treatment with novel hairpin  
PT hybridizer nucleic acid molecules  
XX  
XX Claim 44; Page 76; 128pp; English.  
XX  
XX A method for modulating the function of a target sequence in a cell  
CC comprises treating with a hairpin hybridizer (HPH) nucleic acid molecule  
CC such as that represented by the present sequence. The present HPH  
CC molecule is used in an example of the invention and targets the human  
CC c-ras gene. The HPH molecules function through RNA/DNA inhibition. The  
CC HPH molecule binds to and blocks the function of a target nucleic acid,  
CC and modulates cellular and viral processes such as splicing, editing, and  
CC translation. The HPH molecule can be used therapeutically, in target  
CC validation, to identify gene function and/or therapeutic targets for  
CC analysis of mutations in diseased cell and to detect specific RNA. The  
CC hairpin structure improves resistance to nuclease degradation,  
CC localization within the cell, and uptake by cells. The HPH may include a  
CC sequence that activates RNase H (for cleaving RNA) and its specificity is  
CC greater than for linear antisense sequences.  
XX  
XX Sequence 33 BP; 6 A; 8 C; 12 G; 1 T; 6 U; 0 other;  
SO  
Query Match 0.88; Score 24; DB 21; Length 33;  
Best Local Similarity 100.0%; Pred. No. 4.1e+03;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 2029 ATCAATGCTTGCACGCTGACACG 2052  
DB 28 ATCAATGCTTGCACGCTGACACG 5  
RESULT 14  
AAA26239/c  
ID AAA26239 standard; DNA: 23 BP.  
XX  
XX AAA26239;  
AC  
XX  
XX 19-JUL-2000 (first entry)  
DT  
XX  
XX C-ras antisense oligonucleotide sequence SEQ ID NO:2737.  
DE  
XX  
XX Oestrogen receptor; c-ras; bcl-2; ribozyme; cleavage;  
KW hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;  
KW gene expression modification; cancer; phosphorothioate; endonuclease;  
KW anticancer; breast cancer; endometrium cancer; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO954459-A2.  
PN  
XX  
XX 28-OCT-1999.  
PD  
XX  
XX 19-APR-1999; 99WO-US08547.  
PF  
XX  
XX 20-APR-1998; 98US-0082404.  
PR  
XX 23-JUN-1998; 98US-0103636.  
PR  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX Thompson JD, Beigelman L, McSwiggen JA, Karpelsky A, Bellon L;  
PI Reynolds M, Zwick M, Jarvis T, Woolf T, Haeblerl P;  
PI Matulic-Adamic J;  
XX  
XX WPI: 2000-013248/01.  
DR  
XX

PT New nucleic acids that interact, and optionally cleave, target  
PT sequences, used to treat cancer  
XX  
XX Example 8; Page 105; 148pp; English.  
PS  
XX  
XX The present invention describes nucleic acids (A) that interact stably  
CC with a target sequence and contain at least one phosphoro(di)thioate  
CC link, having endonuclease activity. (A) and more generally any  
CC catalytic nucleic acid (A) that modulates expression of the estrogen  
CC receptor gene, are used to treat cancer (particularly of breast or  
CC endometrium), in vivo or by transforming cells ex vivo and implanting  
CC treated cells, or for other conditions associated with levels of  
CC estrogen receptor. Because of the high selectivity for targeted RNA, (A)  
CC can also be used to correlate inhibition of gene expression with  
CC alterations in phenotype, particularly for identification of therapeutic  
CC targets, and as research reagents (for RNA, in the same way that  
CC restriction endonucleases are used with DNA). The combination of  
CC modifications in (A) improves resistance to nucleases, binding affinity  
CC and/or activity. AAA23503 to AAA24747 represent Oestrogen receptor  
CC hammerhead ribozyme sequences, and AAA24748 to AAA25992 represent their  
CC corresponding target sequences. AAA25993 to AAA26105 represent Oestrogen  
CC receptor hairpin ribozyme sequences, and AAA26107 to AAA26218 represent  
CC their corresponding target sequences. AAA26219 to AAA26271 represent  
CC other ribozyme sequences and antisense oligonucleotides used in the  
CC exemplification of the present invention.  
XX  
XX Sequence 23 BP; 5 A; 4 C; 8 G; 3 T; 3 U; 0 other;  
SO  
Query Match 0.88; Score 23; DB 21; Length 23;  
Best Local Similarity 100.0%; Pred. No. 6.6e+03;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 2029 ATCAATGCTTGCACGCTGACACG 2051  
DB 23 ATCAATGCTTGCACGCTGACACG 1  
RESULT 15  
AAA26242/c  
ID AAA26242 standard; DNA: 23 BP.  
XX  
XX AAA26242;  
AC  
XX  
XX 19-JUL-2000 (first entry)  
DT  
XX  
XX C-ras antisense oligonucleotide sequence SEQ ID NO:2740.  
DE  
XX  
XX Oestrogen receptor; c-ras; bcl-2; ribozyme; cleavage;  
KW hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;  
KW gene expression modification; cancer; phosphorothioate; endonuclease;  
KW anticancer; breast cancer; endometrium cancer; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO954459-A2.  
PN  
XX  
XX 28-OCT-1999.  
PD  
XX  
XX 19-APR-1999; 99WO-US08547.  
PF  
XX  
XX 20-APR-1998; 98US-0082404.  
PR  
XX 23-JUN-1998; 98US-0103636.  
PR  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX Thompson JD, Beigelman L, McSwiggen JA, Karpelsky A, Bellon L;  
PI Reynolds M, Zwick M, Jarvis T, Woolf T, Haeblerl P;  
PI Matulic-Adamic J;  
XX  
XX WPI: 2000-013248/01.  
DR  
XX  
XX New nucleic acids that interact, and optionally cleave, target  
PT sequences, used to treat cancer  
PT

XX Example 8: Page 105; 148bp; English.

PS The present invention describes nucleic acids (A) that interact stably  
 XX with a target sequence and contain at least one phosphorodithioate  
 CC link, having endonuclease activity. (A), and more generally any  
 CC catalytic nucleic acid (A') that modulates expression of the oestrogen  
 CC receptor gene, are used to treat cancer (particularly of breast or  
 CC endometrium), in vivo or by transforming cells ex vivo and implanting  
 CC treated cells, or for other conditions associated with levels of  
 CC oestrogen receptor. Because of the high selectivity for targeted RNA, (A)  
 CC can also be used to correlate inhibition of gene expression with  
 CC alterations in phenotype, particularly for identification of therapeutic  
 CC targets, and as research reagents (for RNA, in the same way that  
 CC restriction endonucleases are used with DNA). The combination of  
 CC modifications in (A) improves resistance to nucleases, binding affinity  
 CC and/or activity. AAA23503 to AAA24747 represent oestrogen receptor  
 CC hammerhead ribozyme sequences, and AAA24748 to AAA25992 represent their  
 CC corresponding target sequences. AAA25993 to AAA26105 represent oestrogen  
 CC receptor hairpin ribozyme sequences, and AAA26107 to AAA26218 represent  
 CC their corresponding target sequences. AAA26219 to AAA26271 represent  
 CC other ribozyme sequences and antisense oligonucleotides used in the  
 CC exemplification of the present invention.

XX SQ Sequence 23 BP; 4 A; 8 C; 5 G; 2 T; 4 U; 0 other;

Query Match

Best Local Similarity 0.8%; Score 23; DB 21; Length 23;

Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2483 GAATGCATCTCACAGCGCGGACT 2505

DB 23 GAATGCATCTCACAGCGCGGACT 1

Search completed: May 16, 2003, 07:08:58  
 Job time : 644 secs





GenCore version 5.1.4-P5-4578  
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OM nucleic - nucleic search, using sw model

Run on: May 16, 2003, 06:58:12 ; Search time 106 Seconds  
(without alignments)  
8612.988 Million cell updates/sec

Title: US-10-057-550A-64

Perfect score: 2977

Sequence: 1 ccgaatgtgaccgcctccg.....taataaataaataattt 2977

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 609818

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PTCIS.COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/Backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	35.6	1.2	42	US-08-785-247-13	Sequence 13, Appl
2	32.6	1.1	39	US-08-785-247-31	Sequence 31, Appl
3	32.4	1.1	42	US-08-785-247-14	Sequence 14, Appl
4	28	0.9	28	US-08-859-998-979	Sequence 979, Appl
5	28	0.9	28	US-09-225-928-979	Sequence 979, Appl
6	26	0.9	26	US-08-306-691B-5	Sequence 5, Appl
7	26	0.9	26	US-08-306-691B-6	Sequence 6, Appl
8	26	0.9	26	US-08-859-998-980	Sequence 980, Appl
9	26	0.9	26	US-09-225-928-980	Sequence 980, Appl
10	25	0.8	25	US-08-957-327-2	Sequence 2, Appl
11	25	0.8	25	US-09-482-084-2	Sequence 2, Appl
12	22	0.7	43	US-08-850-048-17	Sequence 17, Appl
13	22	0.7	43	US-08-050-478-17	Sequence 17, Appl
14	22	0.7	43	US-07-858-747B-17	Sequence 17, Appl
15	22	0.7	43	US-09-414-117-17	Sequence 17, Appl
16	22	0.7	43	US-09-678-437-17	Sequence 17, Appl
17	21.4	0.7	40	US-08-874-825-9	Sequence 9, Appl
18	21.4	0.7	40	US-08-874-825-25	Sequence 25, Appl
19	21.4	0.7	40	US-08-663-824-9	Sequence 9, Appl
20	21.4	0.7	40	US-08-663-824-25	Sequence 25, Appl
21	21.4	0.7	40	US-09-231-303-9	Sequence 9, Appl
22	21.4	0.7	40	US-09-231-303-25	Sequence 25, Appl
23	21.4	0.7	40	US-08-874-825-10	Sequence 10, Appl
24	21	0.7	40	US-08-874-825-26	Sequence 26, Appl
25	21	0.7	40	US-08-663-824-10	Sequence 10, Appl
26	21	0.7	40	US-08-663-824-26	Sequence 26, Appl
27	21	0.7	40	US-09-231-303-10	Sequence 10, Appl

C 28	21	0.7	40	US-09-231-303-26	Sequence 26, Appl
C 29	21	0.7	48	US-09-711-889-3	Sequence 3, Appl
C 30	20.4	0.7	30	US-09-163-507-6	Sequence 11, Appl
C 31	20.4	0.7	33	US-08-580-988A-11	Sequence 11, Appl
C 32	20.2	0.7	47	US-08-951-923-41	Sequence 41, Appl
C 33	20.2	0.7	48	US-08-444-734A-11	Sequence 11, Appl
C 34	20	0.7	20	US-08-250-856A-2	Sequence 2, Appl
C 35	20	0.7	20	US-08-250-856A-3	Sequence 3, Appl
C 36	20	0.7	20	US-08-250-856A-4	Sequence 4, Appl
C 37	20	0.7	20	US-08-250-856A-5	Sequence 5, Appl
C 38	20	0.7	20	US-08-250-856A-6	Sequence 6, Appl
C 39	20	0.7	20	US-08-250-856A-7	Sequence 7, Appl
C 40	20	0.7	20	US-08-250-856A-8	Sequence 8, Appl
C 41	20	0.7	20	US-08-250-856A-9	Sequence 9, Appl
C 42	20	0.7	20	US-08-250-856A-10	Sequence 10, Appl
C 43	20	0.7	20	US-08-250-856A-12	Sequence 12, Appl
C 44	20	0.7	20	US-08-250-856A-13	Sequence 13, Appl
C 45	20	0.7	20	US-08-250-856A-14	Sequence 14, Appl

#### ALIGNMENTS

RESULT 1  
US-08-785-247-13  
Sequence 13, Application US/08785247  
Patent No. 6040149  
GENERAL INFORMATION:  
APPLICANT: Kolesnick, Richard N.  
APPLICANT: Liu, Jun  
TITLE OF INVENTION: ASSAY FOR IDENTIFYING AGENTS WHICH ACT ON THE  
TITLE OF INVENTION: CERAMIDE-ACTIVATED PROTEIN KINASE, KINASE  
TITLE OF INVENTION: SUPPRESSOR OF RAS, AND METHODS OF USING SAID AGENTS  
NUMBER OF SEQUENCES: 31  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/785,247  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 48582-A/JPW/CCA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-278-0400  
TELEFAX: 212-381-0526  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 42 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-785-247-13  
Query Match 1.2%; Score 35.6; DB 3; Length 42;  
Best Local Similarity 90.5%; Pred. No. 0.099; 4; Indels 0; Gaps 0;  
Matches 38; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
916 GTCCACATGCTGACACACGCTGCTGTGAGACGAGATG 957  
|||||

DB 1 GTCCACATGTCACACGCTACCGGTGGACAGCAGATG 42

RESULT 2  
US-08-785-247-31

Sequence 31, Application US/08785247

Patent No. 6040149

GENERAL INFORMATION:

APPLICANT: Kolesnick, Richard N.

APPLICANT: Liu, Jun

APPLICANT: Zhang, Yuhua

TITLE OF INVENTION: ASSAY FOR IDENTIFYING AGENTS WHICH ACT ON THE

TITLE OF INVENTION: CERAMIDE-ACTIVATED PROTEIN KINASE, KINASE

TITLE OF INVENTION: SUPPRESSOR OF RAS, AND METHODS OF USING SAID AGENTS

NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooper & Dunham LLP

STREET: 1185 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/785,247

FILING DATE:

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: White, John P.

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 48582-A/JPM/CCA

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-278-0400

TELEFAX: 212-381-0526

INFORMATION FOR SEQ ID NO: 31:

SEQUENCE CHARACTERISTICS:

LENGTH: 39 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-785-247-31

Query Match 1.18; Score 32.6; DB 3; Length 39;

Best Local Similarity 89.7%; Pred. No. 0.83;

Matches 35; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 919 CACATGTCACACGCTGCTGTGACAGCAGATG 957  
DB 1 CACATGTCACACGCTGCTGTGACAGCAGATG 39

RESULT 3  
US-08-785-247-14

Sequence 14, Application US/08785247

Patent No. 6040149

GENERAL INFORMATION:

APPLICANT: Kolesnick, Richard N.

APPLICANT: Liu, Jun

APPLICANT: Zhang, Yuhua

TITLE OF INVENTION: ASSAY FOR IDENTIFYING AGENTS WHICH ACT ON THE

TITLE OF INVENTION: CERAMIDE-ACTIVATED PROTEIN KINASE, KINASE

TITLE OF INVENTION: SUPPRESSOR OF RAS, AND METHODS OF USING SAID AGENTS

NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooper & Dunham LLP

STREET: 1185 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/785,247

FILING DATE:

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: White, John P.

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 48582-A/JPM/CCA

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-278-0400

TELEFAX: 212-381-0526

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 42 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-785-247-14

Query Match 1.18; Score 32.4; DB 3; Length 42;

Best Local Similarity 85.7%; Pred. No. 1;

Matches 36; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 916 GTCCACATGTCACACGCTGCTGTGACAGCAGATG 957  
DB 1 GTCCACATGTCACACGCTGCTGTGACAGCAGATG 42

RESULT 4  
US-08-859-998-979

Sequence 979, Application US/08859998

Patent No. 5994076

GENERAL INFORMATION:

APPLICANT: Chenchik, Alex

APPLICANT: Jorhadze, George

APPLICANT: Bibilashvili, Robert

TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL

TITLE OF INVENTION: EXPRESSION

NUMBER OF SEQUENCES: 1375

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 2200 Sand Hill Road, Suite 100

CITY: Menlo Park

STATE: CA

COUNTRY: US

ZIP: 94025

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/859,998

FILING DATE: 21-MAY-1997

CLASSIFICATION: 435

PRIOR APPLICATION NUMBER:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Field, Bret E.

REGISTRATION NUMBER: 37,620

REFERENCE/DOCKET NUMBER: 09096/002001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-322-5070

TELEFAX: 415-854-0875

INFORMATION FOR SEQ ID NO: 979:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
OTHER INFORMATION: oligonucleotide primer  
US-08-859-998-979

Query Match 0.9%; Score 28; DB 2; Length 28;  
Best Local Similarity 100.0%; Pred. No. 18;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1704 CAGTTCCAGTCGATGCTACTCTCAT 1731  
DB 1 CAGTTCCAGTCGATGCTACTCTCAT 28

RESULT 5  
US-09-225-928-979  
Sequence 979, Application US/09225928  
Patent No. 6352829  
GENERAL INFORMATION:  
APPLICANT: Chenchik, Alex  
Jokhadze, George  
Ridlashvili, Robert  
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
EXPRESSION  
NUMBER OF SEQUENCES: 1375  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/225,928  
FILING DATE: 05-Jan-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/859,998  
FILING DATE: 21-May-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37,620  
REFERENCE/DOCKET NUMBER: 09096/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-854-0875  
INFORMATION FOR SEQ ID NO: 979:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
OTHER INFORMATION: oligonucleotide primer  
SEQUENCE DESCRIPTION: SEQ ID NO: 979:  
US-09-225-928-979

Query Match 0.9%; Score 28; DB 4; Length 28;  
Best Local Similarity 100.0%; Pred. No. 18;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1704 CAGTTCCAGTCGATGCTACTCTCAT 1731  
DB 1 CAGTTCCAGTCGATGCTACTCTCAT 28

RESULT 6  
US-08-306-691B-5/c  
Sequence 5, Application US/08306691B  
Patent No. 5734039  
GENERAL INFORMATION:  
APPLICANT: Calabretta, Bruno  
APPLICANT: Skorski, Tomasz  
TITLE OF INVENTION: ANTISENSE  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seidel, Gonda, Lavoragna & Monaco, P.C.  
STREET: Two Penn Center, Suite 1800  
CITY: Philadelphia  
STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Nordperfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/306,691B  
FILING DATE: September 15, 1994  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Monaco, Daniel A.  
REGISTRATION NUMBER: 30,480  
REFERENCE/DOCKET NUMBER: 8321-8  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-8383  
TELEFAX: (215) 568-5549  
TELEX: No. 5734039e  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 Nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single stranded  
TOPOLOGY: linear  
US-08-306-691B-5

Query Match 0.9%; Score 26; DB 1; Length 26;  
Best Local Similarity 100.0%; Pred. No. 75;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ATGTGACCGCTCCGCTCCCTCACC 30  
DB 26 ATGTGACCGCTCCGCTCCCTCACC 1

RESULT 7  
US-08-306-691B-6  
Sequence 6, Application US/08306691B  
Patent No. 5734039  
GENERAL INFORMATION:  
APPLICANT: Calabretta, Bruno  
APPLICANT: Skorski, Tomasz  
TITLE OF INVENTION: ANTISENSE  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seidel, Gonda, Lavoragna & Monaco, P.C.  
STREET: Two Penn Center, Suite 1800  
CITY: Philadelphia

STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 720 kb  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/306,691B  
FILING DATE: September 15, 1994  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Monaco, Daniel A.  
REGISTRATION NUMBER: 30,480  
REFERENCE/DOCKET NUMBER: 8321-8  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-8383  
TELEFAX: (215) 568-5549  
TELEX: NO. 5734039e  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 Nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single stranded  
TOPOLOGY: linear  
US-08-306-691B-6

Query Match 0.9%; Score 26; DB 1; Length 26;  
Best local Similarity 100.0%; Pred. No. 75;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ATGTACCGCCTCCGCTCCCTCACC 30  
|||||  
DB 1 ATGTACCGCCTCCGCTCCCTCACC 26

RESULT 8  
US-08-859-998-980/C  
Sequence 980, Application US/08859998  
Patent No. 5994076  
GENERAL INFORMATION:  
APPLICANT: Chenchik, Alex  
APPLICANT: Jekhadze, George  
APPLICANT: Bibilashvili, Robert  
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 1375  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,998  
FILING DATE: 21-MAY-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37,620

REFERENCE/DOCKET NUMBER: 09096/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-854-0875  
INFORMATION FOR SEQ ID NO: 980:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
OTHER INFORMATION: oligonucleotide primer  
US-08-859-998-980

Query Match 0.9%; Score 26; DB 2; Length 26;  
Best local Similarity 100.0%; Pred. No. 75;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1963 TCTCTACCGAAGATCAACCGGAGCGC 1988  
|||||  
DB 26 TCTCTACCGAAGATCAACCGGAGCGC 1

RESULT 9  
US-09-225-928-980/C  
Sequence 980, Application US/09225928  
Patent No. 6352829  
GENERAL INFORMATION:  
APPLICANT: Chenchik, Alex  
APPLICANT: Jekhadze, George  
APPLICANT: Bibilashvili, Robert  
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 1375  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/225,928  
FILING DATE: 05-Jan-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/859,998  
FILING DATE: 21-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37,620  
REFERENCE/DOCKET NUMBER: 09096/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-854-0875  
INFORMATION FOR SEQ ID NO: 980:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
OTHER INFORMATION: oligonucleotide primer  
SEQUENCE DESCRIPTION: SEQ ID NO: 980  
US-09-225-928-980

Query Match 0.9%; Score 26; DB 4; Length 26;  
Best Local Similarity 100.0%; Pred. No. 75;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1963 TCTCTACCGAAGATCAACCGAGCCG 1988  
DB 26 TCTCTACCGAAGATCAACCGAGCCG 1

## RESULT 10

US-08-957-327-2/c  
Sequence 2, Application US/08957327  
Patent No. 6126965  
GENERAL INFORMATION:  
APPLICANT: Kasid, Usha  
APPLICANT: Gokhale, Prafulla  
APPLICANT: Ditschilio, Anatoly  
TITLE OF INVENTION: Liposomes containing Oligonucleotides  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hendricks and Assoc.  
STREET: P.O. Box 2509  
CITY: Fairfax  
STATE: VA  
COUNTRY: US  
ZIP: 22031

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/957,327  
FILING DATE: 24-OCT-1997  
CLASSIFICATION: 514

## ATTORNEY/AGENT INFORMATION:

NAME: Hendricks, Glenna  
REGISTRATION NUMBER: 32,535  
REFERENCE/DOCKET NUMBER: Kasid  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 591-4470  
TELEFAX: (703) 591-4428

## INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: YES  
US-08-957-327-2

Query Match 0.8%; Score 25; DB 3; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 GCTGCATCATGAGCAGCATACAGG 145  
DB 25 GCTGCATCATGAGCAGCATACAGG 1

## RESULT 11

US-09-482-084-2/c  
Sequence 2, Application US/09482084  
Patent No. 6333314  
GENERAL INFORMATION:  
APPLICANT: Kasid, Usha  
APPLICANT: Gokhale, Prafulla  
APPLICANT: Ditschilio, Anatoly  
APPLICANT: Rahman, Aqulur

TITLE OF INVENTION: Liposomes containing Oligonucleotides

NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hendricks and Assoc.  
STREET: P.O. Box 2509  
CITY: Fairfax  
STATE: VA  
COUNTRY: US  
ZIP: 22031

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/482,084  
FILING DATE: 13-Jan-2000  
CLASSIFICATION: <Unknown>

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/957,327  
FILING DATE: <Unknown>

## ATTORNEY/AGENT INFORMATION:

NAME: Hendricks, Glenna  
REGISTRATION NUMBER: 32,535  
REFERENCE/DOCKET NUMBER: Kasid  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 591-4470  
TELEFAX: (703) 591-4428

## INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: YES  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-482-084-2

Query Match 0.8%; Score 25; DB 4; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 GCTGCATCATGAGCAGCATACAGG 145  
DB 25 GCTGCATCATGAGCAGCATACAGG 1

## RESULT 12

US-08-850-049-17  
Sequence 17, Application US/08850049  
Patent No. 5965726  
GENERAL INFORMATION:  
APPLICANT:  
APPLICANT:

## TITLE OF INVENTION:

METHOD OF ELIMINATING  
INHIBITORY/INSTABILITY REGIONS OF mRNA

## NUMBER OF SEQUENCES:

130  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK

COUNTRY: USA  
ZIP: 10154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/850,049

FILED DATE: 02-MAY-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/050,478  
FILING DATE: 26-OCT-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/02908  
FILING DATE: 29-MAR-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/858,747  
FILING DATE: 27-MAR-1992  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MORRIS, MARY J.  
REGISTRATION NUMBER: 34,398  
REFERENCE/DOCKET NUMBER: 2026-4006US1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)751-6849  
TELEFAX: (212)751-6849  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 43 BASE PAIRS  
TYPE: NUCLEIC ACID  
STRANDEDNESS: SINGLE  
TOPOLOGY: LINEAR  
US-08-850-049-17

Query Match 0.7%; Score 22; DB 2; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.9e+03;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Oy 2207 TCACAGGCGCTTAATGCTGCTTCTTTCTATC 2244  
Db 2 TCTCAGATACCTAGCTTCATATGCTTATGTCTAC 39

RESULT 13  
US-08-050-478-17  
Sequence 17, Application US/08050478  
Patent No. 5972596  
GENERAL INFORMATION:  
APPLICANT:  
APPLICANT:  
TITLE OF INVENTION: METHOD OF ELIMINATING  
NUMBER OF SEQUENCES: 130  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/050,478  
FILING DATE: 26-OCT-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/02908  
FILING DATE: 29-MAR-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/858,747  
FILING DATE: 27-MAR-1992  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: MORRIS, MARY J.  
REGISTRATION NUMBER: 34,398  
REFERENCE/DOCKET NUMBER: 2026-4006US1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)751-6849  
TELEFAX: (212)751-6849  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 43 BASE PAIRS  
TYPE: NUCLEIC ACID  
STRANDEDNESS: SINGLE  
TOPOLOGY: LINEAR  
US-08-050-478-17

Query Match 0.7%; Score 22; DB 2; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.9e+03;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Oy 2207 TCACAGGCGCTTAATGCTGCTTCTTTCTATC 2244  
Db 2 TCTCAGATACCTAGCTTCATATGCTTATGTCTAC 39

RESULT 14  
US-07-858-747B-17  
Sequence 17, Application US/07858747B  
Patent No. 6174666  
GENERAL INFORMATION:  
APPLICANT: PAVLAKIS, GEORGE N.; FELBER, BARBARA  
APPLICANT: K.  
TITLE OF INVENTION: METHOD OF ELIMINATING  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/858,747B  
FILING DATE: 19920327  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: MARY J. MORRIS  
REGISTRATION NUMBER: 34,398  
REFERENCE/DOCKET NUMBER: 2026-4006  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)751-6849  
TELEFAX: (212)751-6849  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 43  
TYPE: NUCLEIC ACID  
STRANDEDNESS: SINGLE  
TOPOLOGY: UNKNOWN  
MOLECULE TYPE: OTHER  
HYPOTHETICAL: YES  
FEATURE:  
NAME/KEY:  
LOCATION:  
IDENTIFICATION METHOD:  
OTHER INFORMATION: OLIGONUCLEOTIDE FOR MUTATING NT

OTHER INFORMATION: 3392-3434 OF C-FOS, HUMCFOT, ACC #V01512  
US-07-858-747B-17

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Job time: 113 secs

Query Match 0.7%; Score 22; DB 4; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.9e+03;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

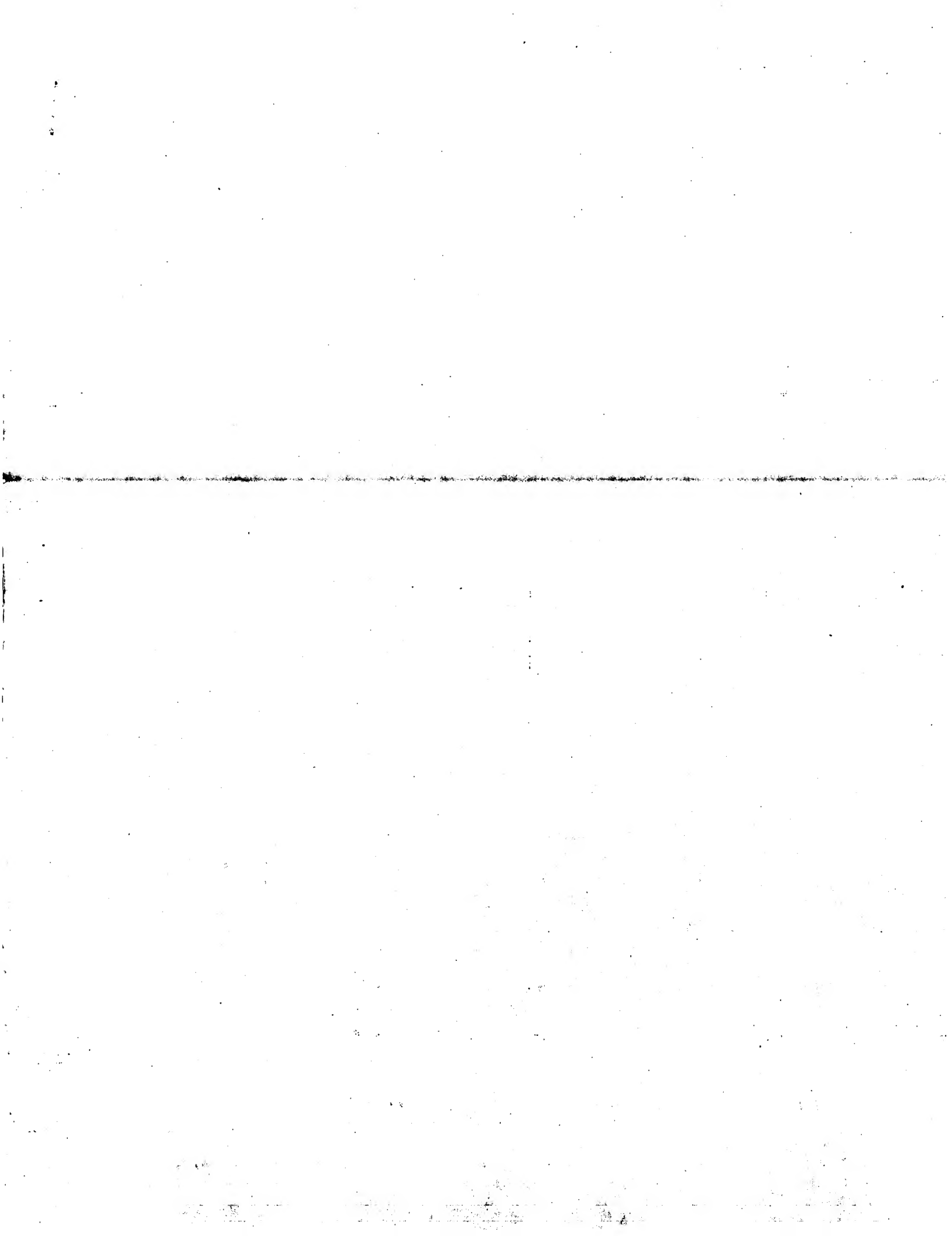
QY 2207 TCACAGGCGCTTACTGATGTCCTTCTTCTATC 2244  
DB 2 TCTCAGATACCTAGCTTCAATGCTTATGCTTACC 39

## RESULT 15

US-09-414-117-17  
Sequence 17, Application US/09414117  
Patent No. 6291664  
GENERAL INFORMATION:  
APPLICANT:  
APPLICANT:  
TITLE OF INVENTION: METHOD OF ELIMINATING  
TITLE OF INVENTION: INHIBITORY/INSTABILITY REGIONS OF mRNA  
NUMBER OF SEQUENCES: 130  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & PINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/414,117  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/850,049  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/02908  
FILING DATE: 29-MAR-1993  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/858,747  
FILING DATE: 27-MAR-1992  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: MORRIS, MARY J.  
REGISTRATION NUMBER: 34,398  
REFERENCE/DOCKET NUMBER: 2026-4006US1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)758-4800  
TELEFAX: (212)751-6849  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 43 BASE PAIRS  
TYPE: NUCLEIC ACID  
STRANDEDNESS: SINGLE  
TOPOLOGY: LINEAR  
US-09-414-117-17

Query Match 0.7%; Score 22; DB 4; Length 43;  
Best Local Similarity 73.7%; Pred. No. 1.9e+03;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 2207 TCACAGGCGCTTACTGATGTCCTTCTTCTATC 2244  
DB 2 TCTCAGATACCTAGCTTCAATGCTTATGCTTACC 39





GenCore version 5.1.4.p5.4578  
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OM nucleic - nucleic search, using sw model

Run on: May 16, 2003, 09:19:06 ; Search time 376 Seconds

(without alignments)  
10213.154 Million cell updates/sec

Title: US-10-057-550A-64  
Perfect score: 2977  
Sequence: 1 ccgaatgtacgcctcccg.....caataaataaataattt 2977

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 810007 seqs, 644969091 residues

Total number of hits satisfying chosen parameters: 482682

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_NA.\*

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2: /cgn2\_6/ptodata/1/pubpna/PTCT\_NEW\_PUB.seq:\*  
3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*  
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11: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*  
12: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*  
13: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*  
14: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	30.6	1.0	31	US-09-801-274-835	Sequence 835, App
2	25	0.8	25	US-09-930-283A-2	Sequence 2, Appl
3	22	0.7	43	US-09-943-722-17	Sequence 17, Appl
4	20.6	0.7	21	US-09-765-081-213	Sequence 213, App
5	20.6	0.7	47	US-09-764-891-10177	Sequence 10177, A
6	20.4	0.7	31	US-09-263-959-580	Sequence 580, App
7	20.4	0.7	41	US-10-085-906-99	Sequence 99, Appl
8	20.2	0.7	46	US-09-827-289-19	Sequence 19, Appl
9	20.2	0.7	46	US-09-827-289-23	Sequence 23, Appl
10	20.2	0.7	48	US-09-822-698A-62	Sequence 62, Appl
11	20	0.7	20	US-10-103-906-4	Sequence 4, Appl
12	20	0.7	20	US-10-078-949-3	Sequence 3, Appl
13	20	0.7	20	US-10-078-949-5	Sequence 5, Appl
14	20	0.7	20	US-10-078-949-7	Sequence 7, Appl
15	20	0.7	20	US-09-835-371-37	Sequence 37, Appl
16	20	0.7	20	US-09-996-263-7	Sequence 7, Appl
17	20	0.7	20	US-09-996-263-8	Sequence 8, Appl
18	20	0.7	20	US-09-996-263-9	Sequence 9, Appl
19	20	0.7	20	US-09-996-263-10	Sequence 10, Appl

C 20	20	0.7	20	9	US-09-996-263-11	Sequence 11, Appl
C 21	20	0.7	20	9	US-09-996-263-12	Sequence 12, Appl
C 22	20	0.7	20	9	US-09-996-263-13	Sequence 13, Appl
C 23	20	0.7	20	9	US-09-996-263-14	Sequence 14, Appl
C 24	20	0.7	20	9	US-09-835-370-37	Sequence 37, Appl
C 25	20	0.7	20	9	US-10-071-822A-1	Sequence 1, Appl
C 26	20	0.7	20	9	US-09-932-300-76	Sequence 76, Appl
C 27	20	0.7	20	9	US-10-057-550-2	Sequence 2, Appl
C 28	20	0.7	20	9	US-10-057-550-3	Sequence 3, Appl
C 29	20	0.7	20	9	US-10-057-550-4	Sequence 4, Appl
C 30	20	0.7	20	9	US-10-057-550-5	Sequence 5, Appl
C 31	20	0.7	20	9	US-10-057-550-6	Sequence 6, Appl
C 32	20	0.7	20	9	US-10-057-550-7	Sequence 7, Appl
C 33	20	0.7	20	9	US-10-057-550-8	Sequence 8, Appl
C 34	20	0.7	20	9	US-10-057-550-9	Sequence 9, Appl
C 35	20	0.7	20	9	US-10-057-550-10	Sequence 10, Appl
C 36	20	0.7	20	9	US-10-057-550-12	Sequence 12, Appl
C 37	20	0.7	20	9	US-10-057-550-13	Sequence 13, Appl
C 38	20	0.7	20	9	US-10-057-550-14	Sequence 14, Appl
C 39	20	0.7	20	9	US-10-057-550-15	Sequence 15, Appl
C 40	20	0.7	20	9	US-10-057-550-16	Sequence 16, Appl
C 41	20	0.7	20	9	US-10-057-550-17	Sequence 17, Appl
C 42	20	0.7	20	9	US-10-057-550-18	Sequence 18, Appl
C 43	20	0.7	20	9	US-10-057-550-19	Sequence 19, Appl
C 44	20	0.7	20	9	US-10-057-550-20	Sequence 20, Appl
C 45	20	0.7	20	9	US-10-057-550-21	Sequence 21, Appl

## ALIGNMENTS

RESULT 1  
US-09-801-274-835  
Sequence 835, Application US/09801274  
Patent No. US20020032319A1  
GENERAL INFORMATION:  
APPLICANT: Cargill, Michele  
APPLICANT: Ireland, James S.  
APPLICANT: Lander, Eric S.  
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
FILE REFERENCE: 2825.2009-001  
CURRENT APPLICATION NUMBER: US/09/801,274  
CURRENT FILING DATE: 2001-03-07  
PRIOR APPLICATION NUMBER: US-60/187,510  
PRIOR FILING DATE: 2000-03-07  
PRIOR APPLICATION NUMBER: US 60/206,129  
PRIOR FILING DATE: 2000-05-22  
NUMBER OF SEQ ID NOS: 1802  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 835  
LENGTH: 31  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-801-274-835  
Query Match: 1.0%; Score 30.6; DB 10; Length 31;  
Best Local Similarity 96.8%; Pred. No. 13;  
Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
OY 2144 CCCTTCTCCAGAGCAGACACATGTTTTC 2174  
DB 1 CCCTTCTCCAGAGCAGACACATGTTTTC 31  
RESULT 2  
US-09-930-283A-2/C  
Sequence 2, Application US/09930283A  
Patent No. US20020160038A1  
GENERAL INFORMATION:  
APPLICANT: Kasid, Usha  
APPLICANT: Gokhale, Prafulla  
APPLICANT: Dritschilo, Anatoly  
APPLICANT: Rahman, Agulur

TITLE OF INVENTION: Liposomes containing Oligonucleotides  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hendricks and Assoc.  
STREET: P.O. Box 2509  
CITY: Fairfax  
STATE: VA  
COUNTRY: US  
ZIP: 22031  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/930,283A  
FILING DATE: 16-Aug-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/354,109  
FILING DATE: 1999-07-15  
ATTORNEY/AGENT INFORMATION:  
NAME: Hendricks, Glenna  
REGISTRATION NUMBER: 32,535  
REFERENCE/DOCKET NUMBER: kasid  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 591-4470  
TELEFAX: (703) 591-4428  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: YES  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-930-283A-2

Query Match 0.8%; Score 25; DB 9; Length 25;  
Best Local Similarity 100.0%; Pred. No. 7.1e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 121 GCTGATCATGAGACATACAG 145  
DB 25 GCTGATCATGAGACATACAG 1

RESULT 3  
US-09-943-722-17  
Sequence 17, Application US/09943722  
Publication No. US20020192660A1  
GENERAL INFORMATION:  
APPLICANT:  
APPLICANT:  
TITLE OF INVENTION: METHOD OF ELIMINATING  
INHIBITORY/INSTABILITY REGIONS OF MRNA  
NUMBER OF SEQUENCES: 130  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/943,722  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/850,049  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/050,478  
FILING DATE: 26-OCT-1994  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/02908  
FILING DATE: 29-MAR-1993  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/858,747  
FILING DATE: 27-MAR-1992  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: MORRY, MARY J.  
REGISTRATION NUMBER: 34,398  
REFERENCE/DOCKET NUMBER: 2026-4006US1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)751-6849  
TELEFAX: (212)758-4800  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 43 BASE PAIRS  
TYPE: NUCLEIC ACID  
STRANDEDNESS: SINGLE  
TOPOLOGY: LINEAR  
US-09-943-722-17

Query Match 0.7%; Score 22; DB 9; Length 43;  
Best Local Similarity 73.7%; Pred. No. 9.3e+03;  
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 2207 TCACAGGCGCTTAACCTGATGTCCTTTCTATC 2244  
DB 2 TCTCAGATACCTGATGTCCTTTCTATGCTTAC 39

RESULT 4  
US-09-765-081-213  
Sequence 213, Application US/09765081  
Patent No. US20020037508A1  
GENERAL INFORMATION:  
APPLICANT: Cargill, Michele  
APPLICANT: Ireland, James S.  
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
FILE REFERENCE: 2825,2008-001  
CURRENT APPLICATION NUMBER: US/09/765,081  
CURRENT FILING DATE: 2001-01-18  
PRIOR APPLICATION NUMBER: US 60/176,861  
PRIOR FILING DATE: 2000-01-19  
NUMBER OF SEQ ID NOS: 461  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 213  
LENGTH: 21  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-765-081-213

Query Match 0.7%; Score 20.6; DB 10; Length 21;  
Best Local Similarity 95.2%; Pred. No. 1.6e+04;  
Matches 20; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1237 GGAGATGTTGCACTAAGATC 1257  
DB 1 GGAGATGTTGCACTAAGATC 21

Query Match	0.78;	Score 20.4;	DB 10;	Length 31;
Best Local Similarity	95.58;	Pred. No. 2.4e+04;		
Matches 21; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

Query Match	0.7%	Score 20.2	DB 10	Length 46
Best Local Similarity	68.3%	Pred. No. 3.7e+04		
Matches	28	Conservative	0	Mismatches 13
				Indels 0
				Gaps 0
QY	2893	TTAATTGTTGTTTATTGACACTGCAAAAATACATTAATCT	2933	
DB	1	TTTTTTTTTTTTTTTTAGAGATGACAAAACATTTTCTAT	41	

RESULT 9  
US-09-827-289-23  
; Sequence 23, Application US/09827289  
; Patent No. US20020009716A1  
; GENERAL INFORMATION:  
; APPLICANT: Abadzu, Patricia  
; TITLE OF INVENTION: Process for Allele Discrimination Using Primer  
; FILE REFERENCE: 469290-55  
; CURRENT APPLICATION NUMBER: US/09/827,289  
; PRIOR FILING DATE: 2001-04-05  
; PRIOR APPLICATION NUMBER: U.S. 60/194843  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 23  
; LENGTH: 46  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: P1 primer for  
US-09-827-289-23

Query Match 0.7%; Score 20.2; DB 10; Length 46;  
Best Local Similarity 68.3%; Pred. No. 3.7e+04;  
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

OY 2893 TTAATTTGTTTATGACCTGACAAATACAGTTATCT 2933  
Db 1 TTTTATTTTATTTAGAAATGACAAATATCTTCAT 41

RESULT 10  
US-09-822-698A-62  
; Sequence 62, Application US/09822698A  
; Patent No. US20020146750A1  
; GENERAL INFORMATION:  
; APPLICANT: Hoogenboom, Hendricus R.J.M.  
; TITLE OF INVENTION: WCCIN-1 Specific Binding Members and Methods of Use Thereof  
; FILE REFERENCE: DYX-015.1 US  
; CURRENT APPLICATION NUMBER: US/09/822,698A  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: US 09/538,913  
; NUMBER OF SEQ ID NOS: 112  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 62  
; LENGTH: 48  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: nucleotide sequence coding for a mutant CDR3 region  
US-09-822-698A-62

Query Match 0.7%; Score 20.2; DB 10; Length 48;  
Best Local Similarity 75.8%; Pred. No. 3.8e+04;  
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 45 GGAGCGGGCGAGAGCTGCCCGGACGACAGG 77  
Db 13 GGGGGGGGCGAGAGCTGCGACTGACTGCG 45

RESULT 11  
US-10-103-906-4/C  
; Sequence 4, Application US/10103906  
; Patent No. US20020156268A1  
; GENERAL INFORMATION:  
; APPLICANT: Krotz, Achim H.  
; APPLICANT: Moelroy, Bethany M.

; TITLE OF INVENTION: Methods for Removing Dimethoxytrityl-Groups from  
; FILE REFERENCE: ISIS-3349  
; CURRENT APPLICATION NUMBER: US/10/103,906  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: US/09/271,220  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: antisense sequence  
US-10-103-906-4

Query Match 0.7%; Score 20; DB 9; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.4e+04;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2484 AATGATGTCACAGCGCGGA 2503  
Db 20 AATGATGTCACAGCGCGGA 1

RESULT 12  
US-10-078-949-3  
; Sequence 3, Application US/10078949  
; Patent No. US20020165189A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; TITLE OF INVENTION: Oligonucleotides And Ribonucleases For Cleaving RNA  
; FILE REFERENCE: ISIS5027  
; CURRENT APPLICATION NUMBER: US/10/078,949  
; PRIOR FILING DATE: 2002-02-20  
; PRIOR APPLICATION NUMBER: 08/479,783  
; PRIOR FILING DATE: 2000-01-07  
; PRIOR APPLICATION NUMBER: 08/870,608  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 08/659,440  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide  
US-10-078-949-3

Query Match 0.7%; Score 20; DB 9; Length 20;  
Best Local Similarity 85.0%; Pred. No. 2.4e+04;  
Matches 17; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1 CCGAATGTGACCGGCTCCG 20  
Db 1 CCGAATGTGACCGGCTCCG 20

RESULT 13  
US-10-078-949-5  
; Sequence 5, Application US/10078949  
; Patent No. US20020165189A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; TITLE OF INVENTION: Oligonucleotides And Ribonucleases For Cleaving RNA  
; FILE REFERENCE: ISIS5027  
; CURRENT APPLICATION NUMBER: US/10/078,949  
; PRIOR FILING DATE: 2002-02-20  
; PRIOR APPLICATION NUMBER: 09/479,783  
; PRIOR FILING DATE: 2000-01-07

;; PRIOR APPLICATION NUMBER: 08/870,608  
;; PRIOR FILING DATE: 1997-06-06  
;; PRIOR APPLICATION NUMBER: 08/659,440  
;; PRIOR FILING DATE: 1996-06-06  
;; NUMBER OF SEQ ID NOS: 9  
;; SOFTWARE: Patentln version 3.1  
;; SEQ ID NO: 5  
;; LENGTH: 20  
;; TYPE: RNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Oligonucleotide  
US-10-078-949-5

Query Match 0.7%; Score 20; DB 9; Length 20;  
Best Local Similarity 85.0%; Pred. No. 2.4e+04;  
Matches 17; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 127 TCATGAGACATACAGG 146  
DB 1 UCAAGGACACACACAGG 20

RESULT 14  
US-10-078-949-7  
;; Sequence 7, Application US/10078949  
;; Patent No. US20020165189A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Crooke, Stanley T.  
;; TITLE OF INVENTION: Oligoribonucleotides And Ribonucleases For Cleaving RNA  
;; FILE REFERENCE: ISIS5027  
;; CURRENT APPLICATION NUMBER: US/10/078,949  
;; CURRENT FILING DATE: 2002-02-20  
;; PRIOR APPLICATION NUMBER: 09/479,783  
;; PRIOR FILING DATE: 2000-01-07  
;; PRIOR APPLICATION NUMBER: 08/870,608  
;; PRIOR FILING DATE: 1997-06-06  
;; PRIOR APPLICATION NUMBER: 08/659,440  
;; PRIOR FILING DATE: 1996-06-06  
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;; SOFTWARE: Patentln version 3.1  
;; SEQ ID NO: 7  
;; LENGTH: 20  
;; TYPE: RNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Oligonucleotide  
US-10-078-949-7

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Best Local Similarity 85.0%; Pred. No. 2.4e+04;  
Matches 17; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2484 AATGATGTACAGCGGGA 2503  
DB 1 AAUGCAUGGACACAGCGGGA 20

RESULT 15  
US-09-835-371-37/C  
;; Sequence 37, Application US/09835371  
;; Publication No. US20020187473A1  
;; GENERAL INFORMATION:  
;; APPLICANT: UHLMANN, Eugen  
;; APPLICANT: BREIPOHL, Gerhard  
;; APPLICANT: WILF, David W  
;; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND  
;; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM  
;; FILE REFERENCE: 02481.1743 SEQUENCE LISTING  
;; CURRENT APPLICATION NUMBER: US/09/835,371  
;; CURRENT FILING DATE: 2001-04-17  
;; NUMBER OF SEQ ID NOS: 53  
;; SOFTWARE: Patentln Ver. 2.1

;; SEQ ID NO: 37  
;; LENGTH: 20  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Description of Artificial Sequence: base sequence  
US-09-835-371-37

Query Match 0.7%; Score 20; DB 9; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.4e+04;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2484 AATGATGTACAGCGGGA 2503  
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Search completed: May 16, 2003, 12:48:11  
Job time: 381 secs



GenCore version 5.1.4\_p5\_4578  
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OM nucleic - nucleic search, using sw model

Run on: May 16, 2003, 06:48:13 ; Search time 6342 Seconds

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Title: US-10-057-550A-64

Perfect score: 2977  
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Scoring table: IDENTITY\_NDC  
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Post-processing: Minimum Match 0%

Listing First 45 summaries

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45:	50	1.7	50	40 US-10-131-827-3119	Sequence 3119, Ap
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47:	31.6	1.1	48	69 US-60-253-651-9462	Sequence 9462, Ap
48:	30.6	1.0	31	31 US-09-801-2274-835	Sequence 835, App
49:	30.6	1.0	48	69 US-60-253-653-25508	Sequence 25508, A
50:	28	0.9	26	7 US-09-225-201B-979	Sequence 979, App
51:	26	0.9	26	7 US-08-306-691-5	Sequence 691, App
52:	26	0.9	26	12 US-08-821-015-5	Sequence 5, Appl1
53:	26	0.9	26	12 US-08-821-015-6	Sequence 5, Appl1
54:	26	0.9	26	16 US-09-225-201B-980	Sequence 980, App
55:	25	0.8	25	17 US-09-354-109-2	Sequence 2, Appl1
56:	25	0.8	25	17 US-09-396-196F-44994	Sequence 44994, A
57:	25	0.8	25	17 US-09-396-196F-44995	Sequence 44995, A
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59:	25	0.8	25	17 US-09-396-196F-44997	Sequence 44997, A
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62:	25	0.8	25	17 US-09-396-196F-45000	Sequence 45000, A
63:	25	0.8	25	17 US-09-396-196F-45001	Sequence 45001, A

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Sequence 45002, A	?	APPLICANT: Wohlgenuth, Jay	
Sequence 45003, A	?	APPLICANT: Fry, Kirk	
Sequence 45004, A	?	APPLICANT: Woodward, Robert	
Sequence 45005, A	?	APPLICANT: Ly, Ngoc	
Sequence 45006, A	?	TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE	
Sequence 45007, A	?	TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES	
Sequence 45008, A	?	FILE REFERENCE: 506612000120	
Sequence 45009, A	?	CURRENT APPLICATION NUMBER: US/10/131, 827	
Sequence 45010, A	?	CURRENT FILING DATE: 2002-09-06	
Sequence 45011, A	?	PRIOR APPLICATION NUMBER: US 10/006, 290	
Sequence 45012, A	?	PRIOR FILING DATE: 2001-10-22	
Sequence 59143, A	?	PRIOR APPLICATION NUMBER: US 60/296, 764	
Sequence 59148, A	?	PRIOR FILING DATE: 2001-06-08	
Sequence 59150, A	?	NUMBER OF SEQ ID NOS: 9090	
Sequence 59151, A	?	SOFTWARE: PatentIn version 3.1	
Sequence 59152, A	?	SEQ ID NO 3119	
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Sequence 44995, A	?	ORGANISM: Homo sapiens	
Sequence 44996, A	?		
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		Gaps 0;	

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RESULT 3  
US-10-131-831-3119/c

```
; Sequence 3119, Application US/10131831
; GENERAL INFORMATION:
```

APPLICANT: Wohlgemuth, Jay  
APPLICANT: Erv Kirk

APPLICANT: Woodward, Robert

APPLICANT: LY, NGOC  
; TITLE OF INVENTION: METHODS

```
;; TITLE OF INVENTION: TRANSPILL
;; FILE REFERENCE: 5066120001211
```

; CURRENT APPLICATION NUMBER:  
 : CURRENT FILING DATE: 2002-0

PRIOR APPLICATION NUMBER: US  
PRIOR FILING DATE: 2001-10-2

PRIOR FILING DATE: 2001-10-2  
PRIOR APPLICATION NUMBER: US

;; PRIOR FILING DATE: 2001-06-0  
; NUMBER OF SEQ ID NOS: 9190

```
; SOFTWARE: PatentIn version 3
; SEO ID NO 3119
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; LENGTH: 50
; TYPE: DNA

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1 FILE: DNA
2 ; ORGANISM: Homo sapiens
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US-10-131-831-3119

Query match	1.7%
Best local similarity	100.0%

Matches 50; Conservative

2899 TTGTTTATTGCACCTGACA

Db 50 TTGTTTATTGCACCTGACA

RESULT 4  
US-60-353-651-0463

US 00 233 021 3402  
; Sequence 9462, Application US,

```
;; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew.
```

APPLICANT: Grigor, Murray R  
TITLE OF INVENTION: Composite

TITLE OF INVENTION: and method for determining the presence of a substance in a sample

FILE REFERENCE: 1033P3



;; CURRENT APPLICATION NUMBER: US/60/253,651  
;; CURRENT FILING DATE: 2000-11-28  
;; NUMBER OF SEQ ID NOS: 27858  
;; SOFTWARE: FASTSEQ for Windows Version 4.0  
;; SEQ ID NO 9462  
;; LENGTH: 48  
;; TYPE: DNA  
;; ORGANISM: Bovine  
US-60-253-651-9462

Query Match 1.1%; Score 31.6; DB 69; Length 48;  
Best Local Similarity 80.4%; Pred. No. 1.5e+03;  
Matches 37; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY 1688 AGGATACCAACCATTCAGTTCGAGTGTCTACTCTATGCG 1733  
DB 2 AGGACCCGAACCCCTACAGCTTCACTCAGATGTCTACGCTATGG 47

RESULT 5  
US-09-801-274-835  
;; Sequence 835, Application US/09801274  
;; GENERAL INFORMATION:  
;; APPLICANT: Cargill, Michele  
;; APPLICANT: Ireland, James S.  
;; APPLICANT: Lander, Eric S.  
;; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
;; FILE REFERENCE: 2825, 2009-001  
;; CURRENT APPLICATION NUMBER: US/09/801,274  
;; CURRENT FILING DATE: 2001-03-07  
;; PRIOR APPLICATION NUMBER: US 60/187,510  
;; PRIOR FILING DATE: 2000-03-07  
;; PRIOR APPLICATION NUMBER: US 60/206,129  
;; PRIOR FILING DATE: 2000-05-22  
;; NUMBER OF SEQ ID NOS: 1802  
;; SOFTWARE: FASTSEQ for Windows Version 4.0  
;; SEQ ID NO 835  
;; LENGTH: 31  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-801-274-835

Query Match 1.0%; Score 30.6; DB 31; Length 31;  
Best Local Similarity 96.8%; Pred. No. 2.3e+03;  
Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2144 CCCTTCTCCAGAGCGAGACACATGTTTC 2174  
DB 1 CCCTTCTCCAGAGGYAGAACATGTTTC 31

RESULT 6  
US-60-253-653-25508  
;; Sequence 25508, Application US/60253653  
;; GENERAL INFORMATION:  
;; APPLICANT: Glenn, Matthew  
;; TITLE OF INVENTION: Compositions isolated from ovine tissues  
;; FILE REFERENCE: 1057P  
;; CURRENT APPLICATION NUMBER: US/60/253,653  
;; CURRENT FILING DATE: 2000-11-28  
;; NUMBER OF SEQ ID NOS: 30124  
;; SOFTWARE: FASTSEQ for Windows Version 4.0  
;; SEQ ID NO 25508  
;; LENGTH: 46  
;; TYPE: DNA  
;; ORGANISM: Ovine  
US-60-253-653-25508

Query Match 1.0%; Score 30.6; DB 69; Length 46;  
Best Local Similarity 80.0%; Pred. No. 2.8e+03;  
Matches 36; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY 1184 CCACGCGATTGGGTCAGGCTTTTGAACGTGTATAGGGA 1228  
DB 2 CCACGCGATTGGATCAGGCTCTTGGGAGCTGTATAGGGA 46

RESULT 7  
US-09-225-201B-979  
;; Sequence 979, Application US/09225201B  
;; GENERAL INFORMATION:  
;; APPLICANT: Chenchik, Alex  
;; APPLICANT: Jorhade, George  
;; APPLICANT: Bibilashvili, Robert  
;; TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
;; EXPRESSION  
;; NUMBER OF SEQUENCES: 1375  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Fish & Richardson, P.C.  
;; STREET: 2200 Sand Hill Road, Suite 100  
;; CITY: Menlo Park  
;; STATE: CA  
;; COUNTRY: US  
;; ZIP: 94025

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/225,201B  
FILING DATE: 05-Jan-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,998  
FILING DATE: 21-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37,620  
REFERENCE/DOCKET NUMBER: 09096/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-854-0875

## INFORMATION FOR SEQ ID NO: 979:

SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
OTHER INFORMATION: oligonucleotide primer

US-09-225-201B-979  
SEQUENCE DESCRIPTION: SEQ ID NO: 979:

Query Match 0.9%; Score 28; DB 16; Length 28;  
Best Local Similarity 100.0%; Pred. No. 1.1e+04;  
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1704 CAGTTTCAGTGGAGTGTCTACTCTAT 1731  
DB 1 CAGTTTCAGTGGAGTGTCTACTCTAT 28

RESULT 8  
US-08-306-691-5/c  
;; Sequence 5, Application US/08306691  
;; GENERAL INFORMATION:  
;; APPLICANT: Calabretta, Bruno  
;; APPLICANT: Skorski, Tomasz  
;; TITLE OF INVENTION: ARTISENSE  
;; TITLE OF INVENTION: OLIGONUCLEOTIDES TARGETING COOPERATING ONCOGENES  
;; NUMBER OF SEQUENCES: 12  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Seidel, Gonda, Lavorgna & Monaco, P.C.

STREET: Two Penn Center, Suite 1800  
CITY: Philadelphia  
STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/306,691  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Monaco, Daniel A.  
REGISTRATION NUMBER: 30,480  
REFERENCE/DOCKET NUMBER: 8321-8  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-8383  
TELEFAX: (215) 568-5549  
TELEX: None  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 Nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single stranded  
TOPOLOGY: linear  
US-08-306-691-5

Query Match 0.9%; Score 26; DB 7; Length 26;  
Best Local Similarity 100.0%; Pred. No. 3.6e+04;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ATGTGACCGCCTCCCGCTCCCTCACC 30  
|||||  
DB 26 ATGTGACCGCCTCCCGCTCCCTCACC 1

RESULT 9  
US-08-306-691-6  
Sequence 6, Application US/08306691  
GENERAL INFORMATION:  
APPLICANT: Calabretta, Bruno  
APPLICANT: Skorski, Tomasz  
TITLE OF INVENTION: ANTISENSE  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seidel, Gonda, Lavorgna & Monaco, P.C.  
STREET: Two Penn Center, Suite 1800  
CITY: Philadelphia  
STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/306,691  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Monaco, Daniel A.  
REGISTRATION NUMBER: 30,480

REFERENCE/DOCKET NUMBER: 8321-8  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-8383  
TELEFAX: (215) 568-5549  
TELEX: None  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 Nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single stranded  
TOPOLOGY: linear  
US-08-306-691-6

Query Match 0.9%; Score 26; DB 7; Length 26;  
Best Local Similarity 100.0%; Pred. No. 3.6e+04;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ATGTGACCGCCTCCCGCTCCCTCACC 30  
|||||  
DB 1 ATGTGACCGCCTCCCGCTCCCTCACC 26

RESULT 10  
US-08-821-015-5/c  
Sequence 5, Application US/08821015  
GENERAL INFORMATION:  
APPLICANT: Calabretta, Bruno  
APPLICANT: Skorski, Tomasz  
TITLE OF INVENTION: METHOD FOR INHIBITING NEOPLASTIC CELL  
PROLIFERATION WITH ANTISENSE OLIGONUCLEOTIDES TARGETING COO  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seidel, Gonda, Lavorgna & Monaco, P.C.  
STREET: Two Penn Center, Suite 1800  
CITY: Philadelphia  
STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/821,015  
FILING DATE:  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/306,691  
FILING DATE: September 15, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Monaco, Daniel A.  
REGISTRATION NUMBER: 30,480  
REFERENCE/DOCKET NUMBER: 8321-8 D11  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-8383  
TELEFAX: (215) 568-5549  
TELEX: None  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 Nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single stranded  
TOPOLOGY: linear  
US-08-821-015-5

Query Match 0.9%; Score 26; DB 12; Length 26;  
Best Local Similarity 100.0%; Pred. No. 3.6e+04;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 ATGTGACCGCCTCCCGCTCCCTCACC 30  
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DB 26 ATGTGACCGCCTCCCGCTCCCTCACC 1

RESULT 11  
US-08-821-015-6  
Sequence 6, Application US/08821015  
GENERAL INFORMATION:  
APPLICANT: Calabretta, Bruno  
APPLICANT: Skorski, Tomasz  
TITLE OF INVENTION: METHOD FOR INHIBITING NEOPLASTIC CELL  
TITLE OF INVENTION: PROLIFERATION WITH ANTISENSE OLIGONUCLEOTIDES TARGETING COOPER  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seidel, Gonda, Lavoigna & Monaco, P.C.  
STREET: Two Penn Center, Suite 1800  
CITY: Philadelphia  
STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Wordperfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/821,015  
FILING DATE:  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/306,691  
FILING DATE: September 15, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Monaco, Daniel A.  
REGISTRATION NUMBER: 30,480  
REFERENCE/DOCKET NUMBER: 8321-8 D11  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-8383  
TELEFAX: (215) 568-5549  
TELEX: None  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 Nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single stranded  
TOPOLOGY: linear  
US-08-821-015-6  
Query Match 0.9%; Score 26; DB 12; Length 26;  
Best Local Similarity 100.0%; Pred. No. 3.6e+04;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 5 ATGTGACGGCTCCGCTCCCTCACC 30  
Db 1 ATGTGACGGCTCCGCTCCCTCACC 26  
RESULT 12  
US-09-225-201B-980/C  
Sequence 980, Application US/09225201B  
GENERAL INFORMATION:  
APPLICANT: Chenchik, Alex  
APPLICANT: Jekhadze, George  
APPLICANT: Babilashvili, Robert  
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL  
EXPRESSION  
NUMBER OF SEQUENCES: 1375  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: CA  
COUNTRY: US  
ZIP: 94025  
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: Fastseq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/225,201B  
FILING DATE: 05-Jan-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,998  
FILING DATE: 21-May-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Field, Bret E.  
REGISTRATION NUMBER: 37,620  
REFERENCE/DOCKET NUMBER: 09096/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-322-5070  
TELEFAX: 415-854-0875  
INFORMATION FOR SEQ ID NO: 980:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 26 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
OTHER INFORMATION: oligonucleotide primer  
SEQUENCE DESCRIPTION: SEQ ID NO: 980:  
US-09-225-201B-980  
Query Match 0.9%; Score 26; DB 16; Length 26;  
Best Local Similarity 100.0%; Pred. No. 3.6e+04;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1963 TCTCTACCGAAGATCAACGAGCGC 1988  
Db 26 TCTCTACCGAAGATCAACGAGCGC 1  
RESULT 13  
US-09-354-109-2/C  
Sequence 2, Application US/09354109  
GENERAL INFORMATION:  
APPLICANT: Kasid, Usha  
APPLICANT: Gokhale, Prafulla  
APPLICANT: Dritschilo, Anatoly  
APPLICANT: Rahman, Agulur  
TITLE OF INVENTION: Liposomes containing Oligonucleotides  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Hendricks and Assoc.  
STREET: P.O. Box 2509  
CITY: Fairfax  
STATE: VA  
COUNTRY: US  
ZIP: 22031  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/354,109  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/957,327  
FILING DATE: 24-Oct-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Hendricks, Glenna  
REGISTRATION NUMBER: 32,535  
REFERENCE/DOCKET NUMBER: Kasid  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 591-4470  
TELEFAX: (703) 591-4428  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: YES  
US-09-354-109-2

Query Match 0.8%; Score 25; DB 17; Length 25;  
Best Local Similarity 100.0%; Pred. No. 6.5e+04;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 121 GCTGATCATGAGCAGCTACAGG 145  
DB 25 GCTGATCATGAGCAGCTACAGG 1

RESULT 14  
US-09-396-196F-44994  
Sequence 44994, Application US/09396196F  
GENERAL INFORMATION:  
APPLICANT: Michael Miltmann  
APPLICANT: David Mack  
APPLICANT: David Lockhart  
APPLICANT: Affymetrix, Inc.  
TITLE OF INVENTION: Methods of Genetic Analysis  
FILE REFERENCE: 3101.1  
CURRENT APPLICATION NUMBER: US/09/396,196F  
CURRENT FILING DATE: 2001-09-15  
PRIOR APPLICATION NUMBER: 60/100,678  
PRIOR FILING DATE: 1998-09-17  
NUMBER OF SEQ ID NOS: 127806  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 44994  
LENGTH: 25  
TYPE: DNA  
ORGANISM: mus musculus  
US-09-396-196F-44994

Query Match 0.8%; Score 25; DB 17; Length 25;  
Best Local Similarity 100.0%; Pred. No. 6.5e+04;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1855 AACTGCCCAAGCATGAGAGGC 1879  
DB 1 AACTGCCCAAGCATGAGAGGC 25

RESULT 15  
US-09-396-196F-44995  
Sequence 44995, Application US/09396196F  
GENERAL INFORMATION:  
APPLICANT: Michael Miltmann  
APPLICANT: David Mack  
APPLICANT: David Lockhart  
APPLICANT: Affymetrix, Inc.  
TITLE OF INVENTION: Methods of Genetic Analysis  
FILE REFERENCE: 3101.1  
CURRENT APPLICATION NUMBER: US/09/396,196F  
CURRENT FILING DATE: 2001-09-15  
PRIOR APPLICATION NUMBER: 60/100,678  
PRIOR FILING DATE: 1998-09-17  
NUMBER OF SEQ ID NOS: 127806  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 44995  
LENGTH: 25  
TYPE: DNA  
ORGANISM: mus musculus

US-09-396-196F-44995

Query Match 0.8%; Score 25; DB 17; Length 25;  
Best Local Similarity 100.0%; Pred. No. 6.5e+04;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1876 AGGCTGTAGCTGACTGTGTGAGA 1900  
DB 1 AGGCTGTAGCTGACTGTGTGAGA 25

Search completed: May 16, 2003, 12:16:27  
Job time : 6348 secs

GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 16, 2003, 07:11:11 ; Search time 1366 Seconds  
(without alignments)  
11277.539 Million cell updates/sec

Title: US-10-057-550A-64

Perfect score: 2977  
Sequence: 1 ccgaatgtgacccctcccg.....taataaataaataattc 2977

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 6404235 seqs, 2567356060 residues

Total number of hits satisfying chosen parameters: 7758442

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Pending Patents, NA, New: \*

1: /cgn2\_6/ptodata/2/pna/PCF\_NEM\_COMB.seq.\*  
2: /cgn2\_6/ptodata/2/pna/US07\_NEM\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/pna/US07\_NEM\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/pna/US08\_NEM\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/pna/US09\_NEM\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/pna/US09\_NEM\_COMB.seq.\*  
7: /cgn2\_6/ptodata/2/pna/US09\_NEM\_COMB.seq.\*  
8: /cgn2\_6/ptodata/2/pna/US10\_NEM\_COMB.seq.\*  
9: /cgn2\_6/ptodata/2/pna/US10\_NEM\_COMB.seq.\*  
10: /cgn2\_6/ptodata/2/pna/US60\_NEM\_COMB.seq.\*  
11: /cgn2\_6/ptodata/2/pna/US60\_NEM\_COMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	50	1.7	50	9 US-10-325-899-3119	Sequence 3119, Ap
C 2	25	0.8	25	8 US-10-075-994A-2	Sequence 2, Appl1
C 3	23.4	0.8	25	11 US-60-427-808-320641	Sequence 320641, A
C 4	23.4	0.8	25	11 US-60-427-808-556623	Sequence 556623, A
C 5	23.4	0.8	25	11 US-60-427-808-917222	Sequence 917222, A
C 6	23.4	0.8	25	11 US-60-427-836-397923	Sequence 397923, A
C 7	23	0.8	50	9 US-10-325-899-5803	Sequence 5803, Ap
C 8	22.4	0.8	43	11 US-60-434-832-1070	Sequence 1070, Ap
C 9	22.2	0.7	42	9 US-60-288-292-19321	Sequence 4066, Ap
C 10	22	0.7	47	9 US-10-349-143-3876	Sequence 19321, A
C 11	22	0.7	25	11 PCT-US02-14877A-875	Sequence 3876, Ap
C 12	21.8	0.7	25	11 US-60-427-808-320640	Sequence 875, App
C 13	21.8	0.7	25	11 US-60-427-808-556622	Sequence 320640, A
C 14	21.8	0.7	25	11 US-60-427-808-556622	Sequence 556622, A
C 15	21.8	0.7	25	11 US-60-427-808-917221	Sequence 917221, A
C 16	21.8	0.7	35	11 US-60-427-836-397922	Sequence 397922, A
C 17	21.8	0.7	39	8 US-10-287-787-18691	Sequence 18691, A
C 18	21.8	0.7	39	8 US-10-287-787-18692	Sequence 18692, A
C 19	21.8	0.7	39	8 US-10-287-787-18693	Sequence 18693, A
C 20	21.8	0.7	30	8 US-10-287-787-19984	Sequence 19984, A
C 21	21.6	0.7	50	6 US-09-912-293-210904	Sequence 210904, A
C 22	21.6	0.7	50	9 US-10-325-899-4714	Sequence 4714, Ap

23	21.4	0.7	25	11 US-60-427-808-116035	Sequence 116035, A
24	21.4	0.7	50	6 US-09-912-293-130705	Sequence 130705, A
25	21.2	0.7	46	8 US-10-287-787-4937	Sequence 4937, Ap
26	21.2	0.7	47	8 US-10-287-787-4936	Sequence 4936, Ap
C 27	21.2	0.7	44	8 US-10-389-048-4355	Sequence 4355, Ap
C 28	21	0.7	44	8 US-10-287-787-19789	Sequence 19789, A
C 29	21	0.7	44	8 US-10-287-787-19790	Sequence 19790, A
C 30	21	0.7	47	9 US-10-349-143-2948	Sequence 2948, Ap
C 31	21	0.7	50	6 US-09-912-293-242736	Sequence 242736, A
C 32	21	0.7	50	9 US-10-325-899-3101	Sequence 3101, Ap
C 33	21	0.7	50	9 US-10-325-899-8045	Sequence 8045, Ap
C 34	20.8	0.7	25	11 US-60-427-808-506441	Sequence 506441, A
C 35	20.8	0.7	25	11 US-60-427-808-630023	Sequence 630023, A
C 36	20.8	0.7	25	11 US-60-427-808-943561	Sequence 943561, A
C 37	20.8	0.7	25	11 US-60-427-836-451365	Sequence 451365, A
C 38	20.8	0.7	50	9 US-10-325-899-7636	Sequence 7636, Ap
C 39	20.6	0.7	45	8 US-10-287-787-19197	Sequence 19197, A
C 40	20.6	0.7	50	6 US-09-912-293-43884	Sequence 43884, A
C 41	20.6	0.7	50	9 US-10-325-899-1696	Sequence 1696, Ap
C 42	20.4	0.7	45	8 US-10-287-787-21968	Sequence 21968, A
C 43	20.4	0.7	45	8 US-10-287-787-21970	Sequence 21970, A
C 44	20.4	0.7	50	9 US-10-325-899-3367	Sequence 3367, Ap
C 45	20.4	0.7	50	9 US-10-325-899-4603	Sequence 4603, Ap

#### ALIGNMENTS

```

RESULT 1
US-10-325-899-3119/c
: Sequence 3119, Application US/10325899
: GENERAL INFORMATION:
: APPLICANT: Wohlgenuth, Jay
: APPLICANT: Fry, Kirk
: APPLICANT: Ly, Ngoc
: APPLICANT: Woodward, Robert
: TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING TRANSP
: TITLE OF INVENTION: REJECTION
: FILE REFERENCE: 506612000122
: CURRENT APPLICATION NUMBER: US/10/325, 899
: CURRENT FILING DATE: 2002-12-20
: PRIOR APPLICATION NUMBER: US 60/296,764
: PRIOR FILING DATE: 2001-06-08
: PRIOR APPLICATION NUMBER: US 10/006,290
: PRIOR FILING DATE: 2001-10-22
: PRIOR APPLICATION NUMBER: US 10/131,831
: PRIOR FILING DATE: 2002-04-24
: NUMBER OF SEQ ID NOS: 9966
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 3119
: LENGTH: 50
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-325-899-3119

Query Match          1.7%: Score 50; DB 9; Length 50;
Best Local Similarity 100.0%; Pred.No. 0.00061;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2899 TTGTTTTTATTCACCTGCACAAATACAGTTATCTGATGCTCCCTCAATT 2848
|||||
DB 50 TTGTTTTTATTCACCTGCACAAATACAGTTATCTGATGCTCCCTCAATT 1

RESULT 2
US-10-075-994A-2/c
: Sequence 2, Application US/10075994A
: GENERAL INFORMATION:
: APPLICANT: KASID, Usha
: APPLICANT: GOKHALE, Prafulla
: APPLICANT: PIE, Jin
: APPLICANT: MEWANI, Rajshree
: APPLICANT: AHMAD, Imran

```

APPLICANT: DRITSCHILLO, Anatoly  
APPLICANT: RAHMAN, Aquilur  
TITLE OF INVENTION: CHEMOSENSITIZING WITH LIPOSOMES CONTAINING OLIGONUCLEOTIDES  
FILE REFERENCE: 219604  
CURRENT APPLICATION NUMBER: US/10/075,994A  
CURRENT FILING DATE: 2002-02-15  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 2  
LENGTH: 25  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic  
US-10-075-994A-2

Query Match 0.8%; Score 25; DB 8; Length 25;  
Best Local Similarity 100.0%; Pred. No. 8.2e+03;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 121 GCTGATCAATGAGCAGCATACAG 145  
DB 25 GCTGATCAATGAGCAGCATACAG 1

RESULT 3  
US-60-427-808-320641  
Sequence 320641, Application US/60427808  
GENERAL INFORMATION:  
APPLICANT: Xue Mei Zhou  
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse  
FILE REFERENCE: 3528  
CURRENT APPLICATION NUMBER: US/60/427,808  
CURRENT FILING DATE: 2002-11-20  
NUMBER OF SEQ ID NOS: 982914  
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
SEQ ID NO 320641  
LENGTH: 25  
TYPE: DNA  
ORGANISM: Mus musculus  
US-60-427-808-320641

Query Match 0.8%; Score 23.4; DB 11; Length 25;  
Best Local Similarity 96.0%; Pred. No. 2.4e+04;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2210 CAGGCGCTTACTTCATTCCTT 2234  
DB 1 CAGGCGCTTACTTCATTCCTT 25

RESULT 4  
US-60-427-808-556623  
Sequence 556623, Application US/60427808  
GENERAL INFORMATION:  
APPLICANT: Xue Mei Zhou  
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse  
FILE REFERENCE: 3528  
CURRENT APPLICATION NUMBER: US/60/427,808  
CURRENT FILING DATE: 2002-11-20  
NUMBER OF SEQ ID NOS: 982914  
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
SEQ ID NO 556623  
LENGTH: 25  
TYPE: DNA  
ORGANISM: Mus musculus  
US-60-427-808-556623

Query Match 0.8%; Score 23.4; DB 11; Length 25;  
Best Local Similarity 96.0%; Pred. No. 2.4e+04;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2214 GCCTTACTTCATTCGCTTCTT 2238

DB 1 GCCTTACTTCATTCGCTTCTT 25

RESULT 5  
US-60-427-808-917222  
Sequence 917222, Application US/60427808  
GENERAL INFORMATION:  
APPLICANT: Xue Mei Zhou  
TITLE OF INVENTION: Methods of Genetic Analysis of Mouse  
FILE REFERENCE: 3528  
CURRENT APPLICATION NUMBER: US/60/427,808  
CURRENT FILING DATE: 2002-11-20  
NUMBER OF SEQ ID NOS: 982914  
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
SEQ ID NO 917222  
LENGTH: 25  
TYPE: DNA  
ORGANISM: Mus musculus  
US-60-427-808-917222

Query Match 0.8%; Score 23.4; DB 11; Length 25;  
Best Local Similarity 96.0%; Pred. No. 2.4e+04;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2217 TTAAGTCATGTTGCTTCTTCTT 2241  
DB 1 TTAAGTCATGTTGCTTCTTCTT 25

RESULT 6  
US-60-427-836-397923  
Sequence 397923, Application US/60427836  
GENERAL INFORMATION:  
APPLICANT: Xue Mei Zhou  
TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
FILE REFERENCE: 3527  
CURRENT APPLICATION NUMBER: US/60/427,836  
CURRENT FILING DATE: 2002-11-20  
NUMBER OF SEQ ID NOS: 699466  
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
SEQ ID NO 397923  
LENGTH: 25  
TYPE: DNA  
ORGANISM: Rattus norvegicus  
US-60-427-836-397923

Query Match 0.8%; Score 23.4; DB 11; Length 25;  
Best Local Similarity 96.0%; Pred. No. 2.4e+04;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2214 GCCTTACTTCATTCGCTTCTT 2238  
DB 1 GCCTTACTTCATTCGCTTCTT 25

RESULT 7  
US-10-325-899-5803/c  
Sequence 5803, Application US/10325899  
GENERAL INFORMATION:  
APPLICANT: Wohlgemuth, Jay  
APPLICANT: Fry, Kirk  
APPLICANT: Ly, Ngoc  
APPLICANT: Woodward, Robert  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING TRANSPL  
FILE REFERENCE: 506612000122  
CURRENT APPLICATION NUMBER: US/10/325,899  
CURRENT FILING DATE: 2002-12-20  
PRIOR APPLICATION NUMBER: US 60/296,764  
PRIOR FILING DATE: 2001-06-08  
PRIOR APPLICATION NUMBER: US 10/006,290  
PRIOR FILING DATE: 2001-10-22

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Query Match	0.88;	Score 23;	DB 9;	Length 50;
Best Local Similarity	74.48;	Pred. NO. 4.4e+04;		
Matches 29; Conservative	0;	Mismatches 10;	Indels 0;	Gaps 0;

```

0y      2661 GTCGATTGGGATGTGTTTCCAGGCACGGCCTCGGCCCA 2699
          || ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      40 GTTATTGAGATGTTTCCAGGAAGGTACACTTGAA 2

```

RESULT 8  
US-60-434-832-1070

```

GENERAL INFORMATION:
APPLICANT: Roemer, Terry
APPLICANT: Jiang, Bo
APPLICANT: Boone, Charles
APPLICANT: Bussey, Howard
TITLE OF INVENTION: Nucleic Acids Encoding Antifungal Drug Targets and Methods of Use
FILE REFERENCE: 10182-023-888
CURRENT APPLICATION NUMBER: US/60/434,832
CURRENT FILING DATE: 2002-12-19
NUMBER OF SEQ. ID NOS: 7137
SOFTWARE: PatentIn version 3.1
SEQ. ID NO: 1070

```

ORGANISM: *Candida albicans*  
US-60-434-832-1070

Query Match	0.88;	Score 22.4;	DB 11;	Length 43;
Best Local Similarity	72.5%;	Pred. No. 6.1e+04;		
Matches 29; Conservative	0;	Mismatches 11;	Indels 0;	Gaps 0

**Oy**    2799 CTAAACAACAACAACAGCCTTGTTTCTCTAGTCA 2838  
         | | | | | | | | | | | | | | | |  
**Db**         3 CAACAACAACAACAACAAGTATACATATACACA 42

RESULT 9  
US-60-288-292-19321

```

1  APPLICANT: Glenn, Matthew
2  APPLICANT: Norris, Michael G
3  TITLE OF INVENTION: Compounds isolated from forage plants
4  TITLE OF INVENTION: and methods for their use.
5  FILE REFERENCE: 1058P
6  CURRENT APPLICATION NUMBER: US/60/288,292
7  CURRENT FILING DATE: 2001-05-02
8  NUMBER OF SEQ ID NOS: 49762
9  SOFTWARE: FastSeq for Windows Version 4.0
10 SEQ ID NO 19321
11 LENGTH: 45
12 TYPE: DNA
13 ORGANISM: Festuca arundinaceae
14 JS-60-288-292-19321

```

Query Match	0.7%	Score 22.2	DB 11	Length 45
Best Local Similarity	69.8%	Pred. No. 7.1e+04		
Matches	30	Conservative	0	Mismatches 13
				Indels 0
				Gaps 0
0Y	1520	TCATCCATAGACATGAATCCAAACAAATATATTTCTCCATGA	1562	
		.		

Db 3 TCGCCACCGAGATATTAAATCCAGCCACATAATGCTCTTGA 45

RESULT 10  
US-10-293-338-4068  
US-10-293-338-4068

**APPLICANT:** RosettaGenomics LTD  
**TITLE OF INVENTION:** BIOINFORMATIALLY DETECTABLE GROUP OF NOVEL REGULATORY GENES  
**TITLE OF INVENTION:** THEREOF

: CURRENT APPLICATION NUMBER: US/10/293,338  
 : CURRENT FILING DATE: 2002-11-14  
 : NUMBER OF SEQ ID NOS: 8785  
 : SOFTWARE: PatentIn version 3.1  
 : SEQ ID NO: 1058

ORGANISM: Homo sapiens  
US-10-293-338-4068

Query Match	0.7%;	Score 22;	DB 9;	Length 22;
Best Local Similarity	100.0%;	Pred. No. 5.7e+04;		
Matches 22;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	988 TCAGCCTCACCTTCAGCCCTGT	1009
Db	1 TCAGCCTCACCTTCAGCCCTGT	22

RESULT 11  
US-10-349-143-3876

```
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Ballelek markers for use in constructing a high density...
; FID. NUMBER: 000000
```

```

CURRENT APPLICATION NUMBER: US/10/349,143
CURRENT FILING DATE: 2003-01-21
PRIOR APPLICATION NUMBER: US/09/422,978
PRIOR FILING DATE: 1999-10-20
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,856
PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/105,733
PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,611
PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
NUMBER OF SEQ ID NOS: 11796
SEQ ID NO 3876

```

```

; ORGANISM: Homo Sapiens
;
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
;
; OTHER INFORMATION: 99-4254-307 : polymorphic base A or G
;
; US-10-349-143-3876

```

Query Match	0.78;	Score 22;	DB 9;	Length 47;
Best Local Similarity	67.48;	Pred. No. 8.3e+04;		
Matches 31;	Conservative	0;	Mismatches 15;	Indels 0;
			Gaps	0;

```
Qy 2554 AACAGCCCCAGGACTGCGGAGACTCTGGCCGCCCGAAGAGAGCCTGCT 2599
      |||||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db 1 AACAGCTTGGGCTCAGCTTACARCAGCATCCCCAAGAGAGCCTCT 46
```

RESULT 12  
PCT-US02-14877A-875  
; Sequence 875, Application PC/TUS0214877A  
; GENERAL INFORMATION:

```

; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: PCT/US02/14877A
; CURRENT FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 875
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: primer
; PCT-US02-14877A-875

```

```

Query Match
Best Local Similarity 0.7%; Score 21.8; DB 1; Length 25;

```

```

Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2796 TCTTACCAACAACAACAACA 2820
DB 1 TCTCAACAACAACAACAACA 25

```

```

RESULT 13

```

```

; US-60-427-808-320640
; Sequence 320640, Application US/60427808
; GENERAL INFORMATION:

```

```

; APPLICANT: Xue Mei Zhou

```

```

; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

```

```

; FILE REFERENCE: 3528

```

```

; CURRENT APPLICATION NUMBER: US/60/427,808

```

```

; CURRENT FILING DATE: 2002-11-20

```

```

; NUMBER OF SEQ ID NOS: 982914

```

```

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

```

```

; SEQ ID NO: 320640
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-60-427-808-320640

```

```

Query Match
Best Local Similarity 0.7%; Score 21.8; DB 1; Length 25;

```

```

Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2210 CAGGCGCTTAACATGATGCTT 2234
DB 1 CAGGCGCTTAACATGATGCTT 25

```

```

RESULT 14

```

```

; US-60-427-808-556622

```

```

; Sequence 556622, Application US/60427808
; GENERAL INFORMATION:

```

```

; APPLICANT: Xue Mei Zhou

```

```

; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

```

```

; FILE REFERENCE: 3528

```

```

; CURRENT APPLICATION NUMBER: US/60/427,808
; CURRENT FILING DATE: 2002-11-20

```

```

; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO: 556622
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-60-427-808-556622

```

```

Query Match
Best Local Similarity 0.7%; Score 21.8; DB 1; Length 25;

```

```

Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2214 GCCTTAACATGATGCTTCTT 2238
DB 1 GCCTTAACATGATGCTTCTT 25

```

```

RESULT 15

```

```

; US-60-427-808-917221
; Sequence 917221, Application US/60427808
; GENERAL INFORMATION:

```

```

; APPLICANT: Xue Mei Zhou

```

```

; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

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; FILE REFERENCE: 3528

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; CURRENT APPLICATION NUMBER: US/60/427,808

```

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; CURRENT FILING DATE: 2002-11-20

```

```

; NUMBER OF SEQ ID NOS: 982914

```

```

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

```

```

; SEQ ID NO: 917221
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-60-427-808-917221

```

```

Query Match
Best Local Similarity 0.7%; Score 21.8; DB 1; Length 25;

```

```

Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2217 TTAACATGATGCTTCTTCTT 2241
DB 1 TTAACATGATGCTTCTTCTT 25

```

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Search completed: May 16, 2003, 12:41:39
Job time : 1374 secs

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GenCore version 5.1.4-p5-4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 16, 2003, 05:51:03 ; Search time 4039 Seconds  
(without alignments)  
11937.104 Million cell updates/sec

Title: US-10-057-550A-64

Perfect score: 2977

Sequence: 1 ccgaatgacccgcctcccg.....taataaataaataaattt 2977

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

EST:\*  
1: em\_estba:\*  
2: em\_esthum:\*  
3: em\_estlin:\*  
4: em\_estmu:\*  
5: em\_estov:\*  
6: em\_estp1:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: gb\_est1:\*  
10: gb\_est2:\*  
11: gb\_hic:\*  
12: gb\_est3:\*  
13: gb\_est4:\*  
14: gb\_est5:\*  
15: em\_estfun:\*  
16: em\_estom:\*  
17: gb\_gss:\*  
18: em\_gss\_hum:\*  
19: em\_gss\_inv:\*  
20: em\_gss\_pln:\*  
21: em\_gss\_vrt:\*  
22: em\_gss\_fun:\*  
23: em\_gss\_mam:\*  
24: em\_gss\_mus:\*  
25: em\_gss\_other:\*  
26: em\_gss\_pro:\*  
27: em\_gss\_rod:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	40.8	1.4	48	14	H26959
2	24.6	0.8	47	17	AZ425831
3	22.8	0.8	45	2	HSW002199
4	22	0.7	40	17	AZ391073
5	22	0.7	43	12	BS969098
6	21.8	0.7	47	13	BJ047667

C	7	21.8	0.7	49	9	A1316598
C	8	21.8	0.7	49	17	AZ593107
C	9	21.6	0.7	45	2	HSW003616
C	10	21.4	0.7	50	9	AU270282
C	11	21	0.7	43	17	AZ310534
C	12	21	0.7	44	9	AL587842
C	13	20.8	0.7	36	17	AZ512567
C	14	20.8	0.7	44	2	HSW001110
C	15	20.8	0.7	45	17	AZ602556
C	16	20.8	0.7	49	9	A1267816
C	17	20.8	0.7	50	9	AU102743
C	18	20.8	0.7	50	12	BF013308
C	19	20.6	0.7	46	9	AA737998
C	20	20.6	0.7	46	9	A1360975
C	21	20.6	0.7	50	9	A1708455
C	22	20.4	0.7	36	17	AZ774766
C	23	20.4	0.7	40	9	AL048749
C	24	20.4	0.7	46	9	A1439612
C	25	20.4	0.7	48	17	DR15019T
C	26	20.4	0.7	49	9	A1173140
C	27	20.4	0.7	50	9	AU104895
C	28	20.4	0.7	50	17	AZ347604
C	29	20.2	0.7	36	14	TS7700
C	30	20.2	0.7	49	17	AZ803783
C	31	20.2	0.7	50	9	AA139046
C	32	20.2	0.7	50	14	BQ258029
C	33	20	0.7	37	10	AW334659
C	34	20	0.7	39	13	BJ065085
C	35	20	0.7	39	17	BJ96875
C	36	20	0.7	40	17	BJ96875
C	37	20	0.7	41	17	AZ793496
C	38	20	0.7	43	9	A1608816
C	39	20	0.7	46	17	AZ806877
C	40	20	0.7	49	9	AA388129
C	41	20	0.7	50	9	AA853120
C	42	20	0.7	50	9	AJ499559
C	43	20	0.7	50	9	AU104458
C	44	20	0.7	50	9	AU104922
C	45	20	0.7	50	9	AA564185
C	45	20	0.7	50	13	BI496942

## ALIGNMENTS

RESULT 1  
H26959  
LOCUS  
DEFINITION  
H26959  
H26959.s1 Soares breast 3MBHst Homo sapiens cDNA clone  
IMAGE:182126 3' similar to gb:X06409 RAF PROTO-ONCOGENE  
SERINE/THROMBIN-PROTEIN KINASE (HUMAN); mRNA sequence.

ACCESSION  
H26959  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

REFERENCE

AUTHORS

TITLE  
JOURNAL  
COMMENT

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
1 (bases 1 to 48)  
Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucuba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevisan, E., Waterston, R., Williamson, A., Woldmann, P. and Wilson, R.  
The WashU-Werk EST Project  
Unpublished (1995)  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@wustl.edu  
Insert Size: 603  
High quality sequence starts: 1  
High quality sequence stops: 1

2

1

```

FH      source      1. 45
FT      /db_xref="taxon:9606"
FT      /organism="Homo sapiens"
FT      /clone="DKFZp364J147"
FT      /clone_lib="564 (synonym: hDbr2). Vector: pAMP1; host
FT      X1-2Blue; sites NotI + SalI"
FT      /dev_stage="fetal"
FT      /tissue_type="Brain"
XX
SQ      Sequence 45 bp; 38 A; 1 C; 5 G; 1 T; 0 other;

Query Match      0.8%; Score 22.8; DB 2; Length 45;
Best Local Similarity 71.4%; Pred. No. 5.4e+05;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

OY 2873 TTTTCTTGATGATTCGGTTTAAATTTGTTTATTCAC 2914
DB 43 TTTTCTTGATGATTCGGTTTAAATTTGTTTATTCAC 2

RESULT 4
A2391073      40 bp      DNA      linear      GSS 03-OCT-2000
LOCUS      1M0152124R Mouse 10kb plasmid UGCG1M library Mus musculus genomic
DEFINITION      clone UGCG1M0152124 R, DNA sequence.
ACCESSION      A2391073
VERSION      A2391073.1 GI:10506116
KEYWORDS      GSS.
SOURCE      house mouse.
ORGANISM      Mus musculus
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
      Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
      1 (bases 1 to 40)
REFERENCE      Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
      Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
      M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A.
      and Wright,D., Weiss,R.
      Mouse whole genome scaffolding with paired end reads from 10kb
      plasmid inserts
      Unpublished (2000)
      Contact: Robert B. Weiss
      University of Utah Genome Center
      University of Utah
      Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
      84112, USA
      Tel: 801 585 5606
      Fax: 801 585 7177
      Email: ddunn@genetics.utah.edu
      Insert Length: 10000 Std Error: 0.00
      Plate: 0152 row: I column: 24
      Seq primer: CACACAGGAACACGCTATAC
      Class: plasmid ends
      High quality sequence stop: 40.
      Location/Qualifiers
      1. 40
      /organism="Mus musculus"
      /strain="C57BL/6J"
      /db_xref="taxon:10090"
      /clone="U00C1M0152124"
      /clone_lib="Mouse 10kb plasmid UGCG1M library"
      /sex="Male"
      /lab_host="E. Coli strain XL10-Gold, M-resistant, F-"
      /note="Vector: pMD229; Purified genomic DNA from M.
      musculus C57BL/6J (male) was obtained from the Jackson
      Laboratory Mouse DNA Resource
      (http://www.jax.org/resources/documents/dnares/). The DNA
      was hydrodynamically sheared by repeated passage through a
      0.005 inch orifice at constant velocity. The sheared DNA
      was blunt end repaired with T4 DNA polymerase and T4
      polynucleotide kinase. Adaptor oligonucleotides were
      ligated to the blunt ends in high molar excess. The
      adaptor DNA was purified and size-selected for a 9.5 to

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10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD22 (G1473211419b1AE129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT      0 a      0 c      8 g      32 t
ORIGIN

Query Match      0.7%; Score 22; DB 17; Length 40;
Best Local Similarity 73.7%; Pred. No. 8.6e+05;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 2872 GTTTCCTGATGATTCGGTTTAAATTTGTTTATTT 2909
DB 1 GTTTCCTGATGATTCGGTTTAAATTTGTTTATTTGTT 38

RESULT 5
BE969098      43 bp      mRNA      linear      EST 04-OCT-2000
LOCUS      60165007R1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:393811 3',
DEFINITION      mRNA sequence.
ACCESSION      BE969098
VERSION      BE969098.1 GI:10581742
KEYWORDS      EST.
SOURCE      human.
ORGANISM      Homo sapiens
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
      1 (bases 1 to 43)
REFERENCE      NIH-MGC http://mhc.nci.nih.gov/.
      National Institutes of Health, Mammalian Gene Collection (MGC)
      Unpublished (1999)
      Contact: Robert Strausberg, Ph.D.
      Email: cgabbs-remail.nih.gov
      Tissue Procurement: CLONETECH Laboratories, Inc.
      cDNA Library Preparation: CLONETECH Laboratories, Inc.
      CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
      DNA Sequencing by: Incyte Genomics, Inc.
      Clone distribution: MGC clone distribution information can be
      found through the I.M.A.G.E. Consortium/LLNL at:
      http://image.llnl.gov
      Plate: LLCM773 row: J column: 20.
      Location/Qualifiers
      1. 43
      /organism="Homo sapiens"
      /db_xref="taxon:9606"
      /clone="IMAGE:393811"
      /clone_lib="NIH_MGC_74"
      /lab_host="DH10B (T1 phage-resistant)"
      /note="Organ: heart; Vector: pDNR-LIB (Clontech); site_1:
      : SfiI (ggccgctggcgc); site_2: SfiI (ggccataggcc); 5'
      and 3' adaptors were used in cloning as follows: 5'
      adaptor sequence: 5'-ATCTAGAGCGGAGCGGCGCCACATG-dT(30)BN-3'
      (where B = A, C, or G and N = A, C, G, or T). Average
      insert size 1.25 kb (range 0.6-4.0 kb). 14/15 clones
      contained inserts by PCR. This library was enriched for
      full-length clones and was constructed by Clontech
      Laboratories (Palo Alto, CA)."

BASE COUNT      0 a      1 c      4 g      38 t
ORIGIN

Query Match      0.7%; Score 22; DB 12; Length 43;
Best Local Similarity 73.7%; Pred. No. 8.7e+05;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 2872 GTTTCCTGATGATTCGGTTTAAATTTGTTTATTT 2909
DB 1 GTTTCCTGATGATTCGGTTTAAATTTGTTTATTTGTT 38

```

JOURNAL Unpublished (1996)  
 COMMENT Contact: Maria M/Mouse EST Project  
 WashU-HM1 Mouse EST Project  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: mouseest@watson.wustl.edu  
 This clone is available royalty-free through LNL: contact the  
 IMAGE Consortium (info@image.lnl.gov) for further information.  
 MGI:990290  
 Seq primer: -40RP from Gibco.

FEATURES  
 source Location/Qualifiers  
 1..49  
 /organism="Mus musculus"  
 /db\_xref="taxon:10090"  
 /clone\_image="1973550"  
 /clone\_lib="Schiller mouse MAC16"  
 /cell\_line="colon cancer cell line"  
 /lab\_host="SOLR"  
 /note="Vector: pBluescript SK- (Stratagene); Site 1: EcoRI  
 ; Site 2: XhoI; Double-stranded cDNA was prepared from  
 cell line MAC16 using primer  
 5'-GAGACAGACAGACAGACAGACAACTGCTGACT(18)-3'. An EcoRI  
 adaptor was used on the 5' end of the cDNA as follows:  
 5'-AATTCGGCAGCAG-3'. The library was size-selected and  
 went through one round of amplification. Average insert  
 size is 1.7 kb, with a range from 0.4-12 kb. This library  
 was constructed by Dr. Martin Schiller (Johns Hopkins  
 University). "

BASE COUNT 40 a 4 c 4 g 1 t  
 ORIGIN

Query Match 0.7%; Score 21.8; DB 9; Length 49;  
 Best Local Similarity 65.3%; Pred. No. 1e+06;  
 Matches 32; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Oy 2872 GTTTCCTGACGATTTGGGTTTAACTTTGTTTATTCGACCTGACAA 2920  
 Db 49 GTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTCGTCGCGA 1

RESULT 8  
 A2593107/c  
 LOCUS A2593107 49 bp DNA linear GSS 13-DEC-2000  
 DEFINITION IM0404022P Mouse 10kb plasmid UUCGM library Mus musculus genomic  
 clone UUCGM0404022 F, DNA sequence.  
 ACCESSION A2593107  
 VERSION A2593107  
 KEYWORDS A2593107.1 GI:11715297  
 GSS.  
 SOURCE house mouse.  
 ORGANISM Mus musculus.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 49)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
 ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
 and Wright,D., Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah  
 University of Utah Genome Center  
 Km. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: dunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0404 row: 0 column: 22  
 Seq primer: CGTTGTTAAACGACGCCACT

RESULT 9	
HSMM003616	
ID	HSMM003616 standard; RNA; EST; 45 BP.
XX	
AC	AL039140;
XX	
SV	AL039140.1
XX	
DT	12-MAR-1999 (Rel. 59, Created)
DT	12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX	
DE	Homo sapiens mRNA; EST DKFZp566L194_r1 (from clone DKFZp566L194)
XX	
XX	
KM	EST; expressed sequence tag.
XX	
OS	Homo sapiens (human)
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia
OC	Eutheria; Primates; Catarrhini; Hominiidae; Homo.
XX	
XX	
RP	[1]
RP	1-45
RA	Bloecher H., Boecher M., Brandt P., Mewes W., Gassenhuber J., Wiemann S.;
RT	Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.
RL	MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY
XX	
CC	Clone from S. Wiemann, sequenced by GBF within the CDNA
CC	sequencing consortium of the German Genome Project
CC	No. 81 sequence available
CC	This clone is available at the RZPD in Berlin
CC	Please contact the RZPD: Ressourcenzentrum, Neubauerweg 6, 14059

RESULT 11				
AZ310534				
LOCUS	AZ310534	43 bp	DNA	linear
DEFINITION	1M002503R Mouse 10kb plasmid UUC1M library Mus musculus genomic			

ACCESSION clone UUGC1M0025J03 R, DNA sequence.  
VERSION A2310534  
KEYWORDS A2310534.1 GI:10352617  
SOURCE GSS.  
ORGANISM house mouse.  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE 1 (bases 1 to 43)  
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.  
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunne@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0025 row: J column: 03  
Seq primer: CACACAGCAACAGCTAGACC  
Class: plasmid ends  
High quality sequence stop: 43.  
Location/Qualifiers  
1..43  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0025J03"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (g1473211419b1a129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 26 a 10 c 4 g 3 t  
ORIGIN

Query Match 0.7%; Score 21; DB 17; Length 43;  
Best Local Similarity 100.0%; Pred. No. 1.6e+06;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2801 AACAAACAACAACAACAG 2821  
|||||  
Db 5 AACAAACAACAACAACAG 25

RESULT 12  
AL587842 44 bp mRNA linear EST 02-MAR-2001  
LOCUS AL587842 BP Chicken Brain Library Gallus gallus cDNA clone  
DEFINITION

ACCESSION ROS064C05, mRNA sequence.  
VERSION AL587842  
KEYWORDS AL587842.1 GI:13192876  
SOURCE EST.  
ORGANISM chicken.  
Gallus gallus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.  
REFERENCE 1 (bases 1 to 44)  
AUTHORS Murray,F.  
TITLE BP Chicken Brain Library  
JOURNAL Unpublished (2001)  
COMMENT Contact: Frazer Murray  
Dept. Genomics and Bioinformatics  
Roslin Institute  
Roslin, Midlothian, EH25 9PS, UK  
Tel: +44 (0)131 527 4200  
Fax: +44 (0)131 440 0434  
Email: frazer.murray@bbsrc.ac.uk  
GCGGCCGCTTTTCTTTTCTTTT 3' Poly A RNA purchased from Clontech (\*6854-  
Seq primer: M13F.  
Location/Qualifiers  
1..44  
/organism="Gallus gallus"  
/db\_xref="taxon:9031"  
/clone="ROS064C05"  
/clone\_lib="BP Chicken Brain Library"  
/tissue\_type="Brain"  
/dev\_stage="Unknown"  
/lab\_host="DH10B"  
/note="Vector: pSPORT1; Site.1: NotI; Site.2: SalI; Cloned unidirectionally. Primer: Oligo dt. 5' adaptor sequence: 5' GCGGCCGCTTTTCTTTTCTTTT 3' Poly A RNA purchased from Clontech (\*6854-1)"  
Clonetecc (\*6854-1)"

BASE COUNT 1 a 0 c 4 g 39 t  
ORIGIN

Query Match 0.7%; Score 21; DB 9; Length 44;  
Best Local Similarity 73.0%; Pred. No. 1.6e+06;  
Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 2873 TTTTCTGATGATGGCTTTAAATTTGTTTAT 2909  
|||||  
Db 4 TTTTCTTTTCTTTTTCGTTTCTTTTCTTTT 40

RESULT 13  
A2512567/c 36 bp DNA linear GSS 05-OCT-2000  
LOCUS A2512567  
DEFINITION clone UUGC1M0356G17 F, DNA sequence.  
ACCESSION A2512567  
VERSION A2512567.1 GI:10693883  
KEYWORDS GSS.  
SOURCE house mouse.  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE 1 (bases 1 to 36)  
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.  
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT

84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunne@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0358 Row: G Column: 17  
 Seq primer: CGTGTAAACGACGCGCAGT  
 Class: plasmid ends  
 High quality sequence stop: 36.  
 Location/Qualifiers

## FEATURES

1..36  
 source

/organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="U081M0358G17"  
 /clone\_lib="Mouse 10kb plasmid U081M library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114|g114732114|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT  
 ORIGIN

0 a 0 c 15 g 21 t

## Query Match

Best Local Similarity 91.7%; Score 20.8; DB 17; Length 36;  
 Pred. No. 1.8e+06;  
 Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2797 CTCACACAAACAAACAAACA 2820

DB 30 CCCAACAACAACAACAACAACA 7

RESULT 14  
 HSM001110 standard; RNA; EST; 44 BP.  
 XX  
 AC AL036793;  
 XX  
 SV AL036793.1  
 XX  
 DT 12-MAR-1999 (Rel. 59, Created)  
 DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)  
 XX  
 DE Homo sapiens mRNA; EST DKFZp564K0763\_r1 (from clone DKFZp564K0763)  
 XX  
 KW EST; expressed sequence tag.  
 XX  
 OS Homo sapiens (human)  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;  
 OC Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 XX  
 RN 1-44  
 RP 1-44  
 RA Duesterhoeft A., Lauber J., Mewes W., Gassenhuber J., Wiemann S.;  
 RT Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.

RL MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY  
 XX  
 CC Clone from S. Wiemann, sequenced by OJagen within the cDNA  
 CC sequencing consortium of the German Genome Project  
 CC No SI sequence available  
 CC This clone is available at the RZPD in Berlin  
 CC Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059  
 CC Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de  
 XX  
 FH key  
 FH Location/Qualifiers

## FEATURES

1..44  
 source

/db\_xref="taxon:9606"  
 /organism="Homo sapiens"  
 /clone="DKFZp564K0763"  
 /clone\_lib="564 (Synonym: hBfr2). Vector pAM11; host  
 /dev\_stage="fetal"  
 /tissue\_type="brain"

Sequence 44 BP: 21 A; 6 C; 10 G; 4 T; 3 other;

## Query Match

Best Local Similarity 65.1%; Score 20.8; DB 2; Length 44;  
 Pred. No. 1.8e+06;  
 Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 2772 GGGGGCCGAGGCGCAGCTCTTCTCTACAAACAAACA 2814

DB 2 GGGGGGNNANAGACAGACCTCTCTCAAAAAAAAAA 44

## RESULT 15

AZ602556 45 bp DNA linear GSS: 13-DEC-2000  
 LOCUS 1M0421E20F Mouse 10kb plasmid U081M library Mus musculus genomic  
 DEFINITION clone U081M0421E20 F, DNA sequence.

## ACCESSION

AZ602556

## VERSION

AZ602556.1 GI:11724746

## KEYWORDS

GSS.

## SOURCE

house mouse.

## ORGANISM

Mus musculus

## REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

## AUTHORS

Dunn,D., Boyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,  
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,  
 M., Rose,M., Rose,R., Stokes,R., Tingley,A., von Niederhausen,A.  
 and Wright,D., Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

## TITLE

Unpublished (2000)

## JOURNAL

Contact: Robert B. Weiss

## COMMENT

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 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunne@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0421 Row: E Column: 20

Seq primer: CGTGTAAACGACGCGCAGT

Class: plasmid ends

High quality sequence stop: 45.

Location/Qualifiers

1..45

/organism="Mus musculus"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="U081M0421E20"

/clone\_lib="Mouse 10kb plasmid U081M library"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note-Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g11473211419b1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance.

BASE COUNT 1 a 4 c 8 g 32 t  
ORIGIN

Query Match 0.7%; Score 20.8; DB 17; Length 45;

Best Local Similarity 91.7%; Pred. No. 1.9e+06;

Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

4 QY 2799 CTACCAACAACAACAACACGC 2822

Db 39 CAAACAACAACAACAACAACAAC 16

Search completed: May 16, 2003, 10:26:05  
Job time : 4055 secs